

between conventional and experimental

Mass Housing and Prefabrication
in Modernist Architecture

Regine Hess, Inbal Ben-Asher Gitler, Tzafrir Fainholtz, Yael Allweil (eds)



Leuven University Press

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Edited by

*Regine Hess, Inbal Ben-Asher Gitler, Tzafrir Fainholtz,
and Yael Allweil*

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The Milan Triennale Exhibitions

and the Debate on Prefabrication in Postwar Italy

Ilaria Giannetti and Stefania Mornati

In the global perspective offered by the present book, the “experimental” conceptualizations, production methods, and prototypes showcased at the Milan Triennale Exhibitions constitute a significant case study for exploring the impact of prefabrication on modernist architectural languages, focusing on the relationship between the technological advances and design processes, at the scale of the single construction system.

In the aftermath of World War II, rebuilding as fast as possible was a priority in most of Europe, and applying the patterns of industrial processes to building appeared to be the best approach in terms of both efficacy and cost. However, owing to frequent clashes between private enterprise and public policy in regard to the societal and economic issues involved in urban planning, building industrialization in Italy was a delayed and less systematic process than elsewhere in Europe. Nevertheless, experimentation and the spread of information about new construction methods played a vital role in architectural culture in Italy. The exhibitions of the Milan Triennale, an institution founded in 1923 by Giovanni Marangoni, were the principal showcases for experiments in Italian postwar prefabrication.

The first Triennale exhibition—the International Exhibition of Decorative Arts—opened in 1923 at Villa Reale in Monza. The event planners’ primary goal was to promote links between the new artistic trends and the world of industry. This initiative, at first scheduled every two years, immediately gathered eminent personalities around it. From 1930 on, it has been known as the International Triennial Exhibition of Modern Decorative and Industrial Arts, becoming a triennial event. In 1933, the venue was moved to the Palazzo dell’Arte in Milan, specially built according to a design by Giovanni Muzio. Interrupted by the wartime events in 1940—and with it, the series of competitions, conferences, and collateral events—the Triennale was resumed in 1947 and, albeit at irregular intervals, continues to this day.

Technological innovation in construction and the relationship between architecture, industry, and urban planning are the themes of the cultural

debate that has been fostered by the Triennale since the second half of the 1930s. During the 1940s and the 1950s, the urgency of postwar reconstruction fostered the widening of the architectural section of the exhibition. Within this framework, the Triennale became a showcase for technological experimentation in the construction sector, in line with the intentions of the Milanese construction industry.

In this chapter, we focus on the eighth, tenth, and twelfth editions of the Triennale: the successive exhibitions served to update the state of the art of building prefabrication and industrialization culture in Italy, from the postwar reconstruction to the economic miracle years. The Triennale's historic archive was the key source for our study.

VIII Triennale: The Mass-Housing Plan

In order to reduce housing costs in the heyday of reconstruction, independent contractors, construction companies, and public bodies and institutions in Italy sought to devise building systems that would be both more efficient and faster. On October 17, 1945, Piero Bottoni, Commissionaire of the Triennale, announced the creation of the *Quartiere dell'Ottava Triennale* (QT8) experimental district within the VIII Triennale exhibition in 1947, which was designed to introduce a suitable state-planned process along the lines of foreign models.¹ The QT8 district featured an area financed by the Ministry of Public Works where fully industrialized construction systems could be tested.

The VIII Triennale bears witness to the vigorous debate on building industrialization to solve the serious postwar housing shortage. The sections on unification, modulation, and industrialization in the Triennale's building exhibition were curated by the architects Paolo Chessa, Ignazio Gardella, Enrico Gentili, Vico Magistretti, and Carlo Rusconi Clerici. As the curators noted, the exhibition, hosted in the Palazzo dell'Arte, highlighted that "house construction has reached the point of inflection between a craft technique and an industrial technique." Furthermore, they elaborated that while the artisan technique "characterized by on-site construction and wet construction... requires long periods to make the house habitable..., the industrial technique allows for the elimination of waste, the reduction of working processes, and high-quality and low-cost products."²

The exhibition *Unification, Modulation, and Industrialization* focused on applying an integral industrialization process to housing construction. Although it was based on unification, mass production, and scientific organization, the process was to respect the uniqueness of the architectural work. The curators stressed, "Unification does not mean limiting individual value and freedom but

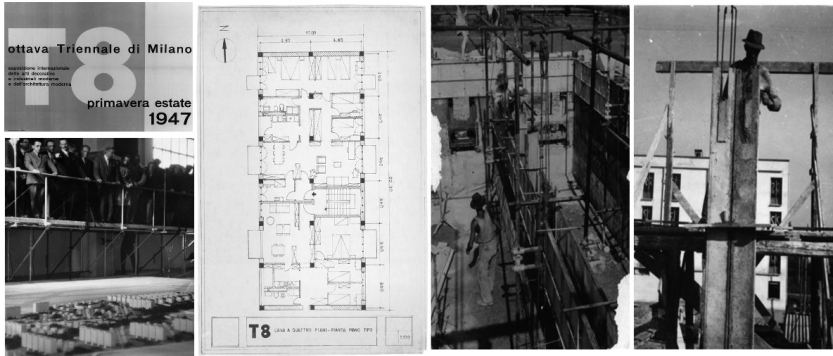


Fig. 9.1. Milan Triennale VIII, 1947: Cover of the exhibition catalog, physical model of the QT8 experimental district showed at Palazzo dell'Arte, standard plan of the "prefabricated house," construction site of the Breda-Fiorenzi house and the Gaburri house, 1948. Triennale di Milano-Archivi, Milan.

only coordinating them in the interest of the work of the community."³ The theoretical approach relied on the exhibition's presentation of a project for a modular wall structure of a housing unit with unified measurements (by architects Carlo Rusconi Clerici, Luigi Frattino, and Luigi Mattioni) together with the 1:1 scale prototype of a prefabricated house by Gabriele Mucci, designed in cooperation with nine other architects, including Ernesto Nathan Rogers, Mario Terzaghi, and Augusto Magnaghi. The purpose of this prototype was to prepare the ground for "the achievement, with modest means, of the best conditions of well-being and civil living," as the architects noted in the catalog of the exhibition (fig. 9.1).⁴ From a technological point of view, the prototype demonstrated the application of the PM Bogliardo prefabrication system with double-wall reinforced concrete load-bearing panels and beam elements.⁵

Alongside the Palazzo dell'Arte exhibition, the VIII Triennale inaugurated the construction site of the experimental QT8 district. Only one building type was shown, namely a four-story block consisting of forty-two rooms that had been prefabricated. It was to become the basic framework for the approach—and for comparisons—among different building systems. The funds allocated by the Ministry of Public Works amounted to little over 100 million lire, which allowed for the construction of five buildings.⁶ Five systems were chosen for the comparisons. The first was the Breda-Fiorenzi system, which utilized a process of mechanization of concrete casting using metal formworks that could be assembled and lifted by means of Innocenti tube and coupler scaffolding. The second one was the Mariani system, which combined reinforced-concrete hollow elements with post-tensioned cables. This was followed by the Ciarlini system, a hollow cylindrical-pole structure with shelf-shaped elements and

prefabricated beams. Then came the Gaburri system, which included a series of three hollow elements—plinths, pillars, and beams—as precast parts with concrete on-site finishing to create a framework structure. The last one was the C.G.T. system, a metal structure devised by architects Aldo Cassinelli, Eugenio Gentili Tedeschi, and Mario Tedeschi, which had not yet been utilized.⁷

The Centro Sperimentale dell’Abitazione (CNR), a research group created at the Milan Polytechnic, was tasked with monitoring the building yard.⁸ Owing to inadequate means, only the Breda-Fiorenzi and Gaburri systems were subjected to careful scrutiny: the former afforded the sampling and evaluation of cast-in-place mechanization, and the latter offered the chance to prove it was possible to do without the formworks of the traditional frame system. In contrast, both the Mariani and Ciarlini systems proved to be quite unwieldy, owing to both the choices of the contractors and to some faults in the construction that led to the Mariani building project being aborted.⁹

Construction of the four buildings began in 1947 and ended in 1949. In the same year, the launch of the INA-Casa plan, which linked the construction site to the national blue-collar employment program, cut industrialization out of public housing planning and relegated experimentation to private initiative.¹⁰

X Triennale: On Industrial Design

In 1951, the IX Triennale dealt with the subject of prefabrication and industrialization in building. The social benefits of industrialized construction in the context of planning for public housing, proposed at the VIII Triennale, evolved, step by step, into a broader discussion on the collaborative relationship between the world of the arts and industrial production.¹¹ In 1954, the X Triennale witnessed this shift in the cultural debate on building industrialization. Prefabrication, unification, and industrial design constituted the leitmotif of the event: the lines of research on building technology, in accordance with the industrialization section of the VIII Triennale, were developed, as noted by Ivan Matteo Lombardo, the president of the Triennale, on autonomous authorial and productive initiatives in the context of a “vastly experimental” exhibition of “what has not yet been tested.”¹² Within a debate on the role of art in the industrial process, for Lombardo “architecture stands as a moment of perfect correspondence, and almost reversibility, between technique and expression.” He went on, noting that “industrial production takes place in the form of industrial ‘shape,’ as the most appropriate expression ... that spontaneously arises in the system, in the utensil, in the mass-produced object when these are consistent with the technique.”¹³

In accord with this concept, in addition to the exhibition of construction elements set up in the Palazzo dell'Arte, the most innovative building prototypes were installed in the Parco Sempione. The park was suitably reorganized and arranged by the architect Marcello Grisotti to host the other exhibition sections, including examples of buildings complete with their furnishings, each erected using a different construction system. The focus there was on “the industrialization of the building detail itself and construction in general, with special reference to the single-family home.”¹⁴ The construction systems presented—all Italian, except for Richard Buckminster Fuller’s Geodesic Dome dwelling—bear witness to the use of experimental construction elements, processes, and traditional systems, enhanced by new production processes and the focus on light prefabrication techniques.

Among the prototypes presented, the engineer Giovanni Varlonga, founder of the FEAL company, presented the so-called *Elemento di casa verticale industrializzata* (Industrialized Vertical House Element): a single-story dwelling—with a floor area of approximately 120 m² and a floor-to-floor height of 2.90 m—stackable on a steel skeleton. The components of the skeleton were hollow Dalmine steel tubes, I.L.V.A. steel laminates, which were standard products for Italian buildings, combined with atypical construction details (fig. 9.2). The project was drawn up by Varlonga in collaboration with the engineer Fabio Fratti of the FEAL Technical Office and the architect Ippolito Malaguzzi Valeri. The prototype pioneered a unique joint that enabled a mechanical connection between the Dalmine tubes, arranged with spacings of five and two meters, and the horizontal beams of the slabs. The structure was completed by cast-on-site reinforced concrete slabs. The joint could be produced in series as the external diameter of the supporting structure remained constant. The necessary reduction of weight from the upper floors in the multistory version was achieved by reducing the thickness of the lamination. Prefabricated inner walls—of aluminum or wood—were installed after the linoleum floor had been laid. The bathroom-kitchen block was also prefabricated and its windows and sliding doors were made of aluminum. Eraclit panels provided thermal insulation with an air chamber, finished on the outside with light-alloy enameled sheet metal. The main qualities of the system were its economy, its speed of construction owing to the radical reduction of on-site work, its lightness, and the fact that it could make use of components already on the market, for example, the standard components of the steel load-bearing structure. The sample building, considered by the Italian Office of Industrial Patents and Trademarks as one of the most interesting proposals of the exhibition, was the subject of an industrial patent that was filed in 1955.¹⁵

In a project along the lines of the Varlonga prototype, architects Gio Ponti, Antonio Fornaroli, and Alberto Rosselli proposed a single-family house about

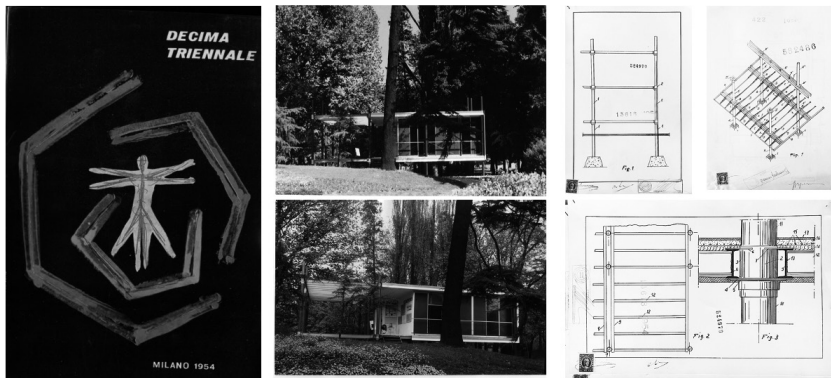


Fig. 9.2. Milan Triennale X, 1954: Cover of the exhibition catalog, G. Varlonga, F. Fratti, and I. Malaguzzi Valeri: *Element of the FEAL Vertical Industrialized House* in the Sempione Park, patent of the system. Triennale di Milano-Archivi, Milan.

120 m² in size. Its metal structure was made of standard steel profiles, exploiting a construction system designed by the engineer Leone Togni.¹⁶ The plan was articulated on staggered floors to underscore the high flexibility of distribution obtained with mass production. The Togni prefabricated block resolved the plant engineering part relating to the bathroom and kitchen.

Architects Lucio Baldassarri and Marcello Grisotti designed several different projects: a prefabricated mountain house, an industrialized country house, and a prefabricated wooden house. They concentrated on innovative construction systems and modifying traditional ones for local or regional solutions in the light of modern technologies. For the prefabricated mountain house model presented at the Triennale, the designers' object was to "technically develop a structure that is as 'universal' as possible."¹⁷ Thus, they employed the thermal-insulating laminated panel by the Salvit company. The use of that panel ensured the join between the two outer asbestos cement layers and the inner asbestos cement-perlite layer. It could be combined with any structural solution to form the envelope for internal partitions and, if supplemented by a cross reinforcement, could also be used for the horizons.

In contrast, for the industrialized country house model, the designers used a load-bearing construction system called ER-Cal, which erected the wall box using a reinforced concrete casting with two Eraclit panels inside to improve the thermal insulation of the walls. The door and window frames were embedded in the casting. A monolithic structure that was erected in a rapid on-site process both served as a load-bearing element and ensured adequate thermal insulation. Baldassarri and Grisotti also exhibited their prefabricated wooden house. The prototype was an example of "integral" prefabrication, using some

traditional materials: the wooden truss became the generator module and featured a drawn aluminum carter to provide structural cohesion and protection.

The prototypes discussed here testify more than others to the experimental nature of the X Triennale, which was all about the relationship between the arts and industrial production. This was further emphasized by the experimental character of the Geodesic Dome dwelling by Richard Buckminster Fuller and the Experimental House by architects Mario Ravegnani and Antonello Vincenti in collaboration with the painter Bobi Brunori. The former was made with sheets of waterproofed cardboard; the latter, characterized by a structural module based on an equilateral triangle, featured the assembly of mass-produced elements, demonstrating the possibility of reducing costs while ensuring functional efficiency and aesthetic consistency.

XII Triennale: The Mass-School Plan

In the 1957 XI Triennale, prefabrication and industrialization in buildings was only a side issue that dealt in a very limited fashion with the developments of the construction sites in QT8. It was not until the XII Triennale in 1960 that industrialization and prefabrication was again a central theme.

In 1958, the Italian government proposed a draft law for a “Ten-Year School Development Plan (1959–1969).” Paragraph 1 of the document was devoted to buildings. In the same year, the Centro Studi della Triennale, together with Ministry of Education technicians, drew up an initial program for the twelfth edition of the Milanese exhibition, which reflected the decision to adopt the thematic exhibition model for the first time.¹⁸ In the framework of the draft of the ten-year plan, the design and construction of school buildings were politically urgent topics.¹⁹

In September 1960, the public entered the Triennale, greeted in Parco Sempione by the model of a school constructed using a state-of-the-art industrialized process: the full-scale prototype of a primary school, built with the CLASP system, designed by architect Dan Lacey and donated to the City of Milan by the British Ministry of Education. The *School Exhibition* was mounted in the Palazzo dell’Arte: two full-scale models, a “multi-classroom unit” and a “classroom–common-room unit,” showcased a novel conception of a school space based on the latest pedagogical concepts (fig. 9.3).²⁰ At the same time, design competitions for school furniture, industrialized building elements, and pilot primary schools were held to involve architectural research in the design of school buildings. In particular, the Competition for the Study of Industrialized Elements for Elementary School Construction reflected the state of the art of the building industry’s production possibilities for the



Fig. 9.3. Milan Triennale XII, 1960: Cover of the exhibition catalog, cover of the book *Britain New Schools*, British CLASP school in the Sempione Park, 1960. Triennale di Milano-Archivi, Milan.

construction of industrialized school buildings within a public funding-based program.

The competition call, launched in October 1960, was defined by the Centro Studi in agreement with the ministry and the newly established Italian Prefabrication Association (AIP). The competition involved Italian companies in two distinct areas. The first was called “single elements” and sought innovative solutions for “opaque or transparent external closure elements and simple internal closure elements, with fanlight, door or services,” as specified in the competition announcement.²¹ The second one, with the theme “combined elements system,” required the “project for a single- or multi-classroom school building’ as a prototype for fully industrialized construction systems.”²² The competition’s organization confirmed its promotional purposes: no building application was planned, but the selected companies were asked to send together with the project and cost estimates a full-scale model of the most significant nodes of the system presented for a final show in Palazzo dell’Arte.²³ The engineer Pier Luigi Nervi, who had recently become very well known in the field of structural prefabrication, chaired the jury that guaranteed the validity of the selected systems.

Among the jury’s criteria, one aspect was considered fundamental in evaluating the projects: the capability of producing individual elements combinable in both industrialized construction and, even more so, in traditional construction.²⁴ Engineer Giuseppe Ciribini suggested one criterion that was far-sighted and particularly suited to a production structure made up of small, highly specialized companies.²⁵ With this approach, fully industrialized systems could be achieved through temporary production company associations. The actively engaged architects and engineers played a fundamental role in the association of construction firms. They were defining new building systems

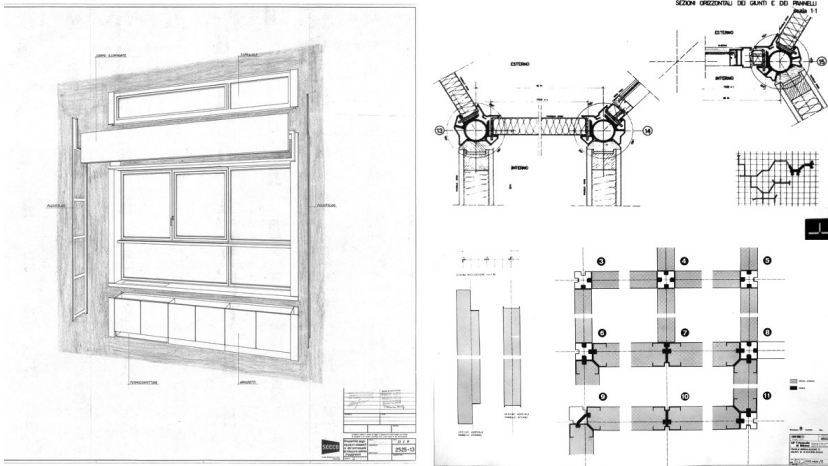


Fig. 9.4. Milan Triennale XII, competition: F. Albini and F. Helg, SECCO firm: transparent wall-unit (patented), BBPR Architects, SAIRA-SADI-LuxaFlex: pluridirectional joint for the assembly of prefabricated panels (patented), M. Terzaghi and A. Magnagni: SNAM, joint for the assembly of prefabricated panels. Triennale di Milano-Archivi, Milan.

derived from the assembly of standard elements available on the national building market.

In this sense, the competition featured promising prototypes. As such, we explain them in detail below: (1) the samples of individual elements proposed by the Aldo SECCO company, based on a design by architects Franco Albini and Franca Helg; (2) the grouping of companies SAIRA (*Smalteria Metallurgica Veneta*), SADI, and LUXAFLEX Alluminio, based on a design by the BBPR design studio; and (3) the integrated system, delineated by architects Augusto Magnagni and Mario Terzaghi for the SNAM Progetti group (fig. 9.4).

The Prototype by Albini and Helg for SECCO Company

From among the competing building elements, the committee chose the prototype presented by the Aldo SECCO company, a transparent wall package consisting of variously combinable elements. Each element functioned as a single component embedded in a traditional building or as base module of a fully prefabricated construction system. The structure consisted of a series of galvanized steel sheet profiles that framed the components of a wall unit (lockers, opening frames, and fanlight). Between two so-called false-frames, two external C-shaped sheet metal profiles functioned in the same way as joints for

the coupling of two modules and as a counterframe for the insertion of the wall unit into the traditional masonry walls. After the competition, the SECCO company filed two new industrial patents to manufacture unique metal window frames called Monobloc, “complete with frame, shutter and relative box, preassembled in a single block.”²⁶ The industrial inventions focused on the two design themes addressed by the Albini-Helg project on which the proposal was based: a prefabricated window unit, embedding the components of the traditional window frame, and its installation in both conventional construction and integral prefabrication systems.

The BBPR Prototype

Taking part in the same section of the competition, the association of the companies Smalteria Metallurgica Veneta, Officine SAIRA, SADI, and LUXA-FLEX Alluminio in connection with the design studio BBPR proposed the project of a “single element.” Unlike the projects presented by the other companies in that section focusing on the definition of individual elements, the prototype designed by BBPR featured a joint with which assembly angles between panels could range from 90° to 180°. The connecting element allowed for standard components of panels and window frames within a system with a large degree of freedom of aggregation. As evidence of the various combinatorial possibilities enabled by the connection, the designers offered a series of floor plans showing the arrangement of the perimeter panels and the internal divisions based on five different angles (90°, 120°, 135°, 150°, and 180°). The jury considered the prototype an “element of good design and excellent functional performance,” embedding “excellent solution of both the frame and the elements and moldings.”²⁷ The model was also very successful with manufacturers, who realized its potential in the construction market. During the competition, the designers filed an industrial patent for a “joint allowing two or more prefabricated panels to be joined at different angles.”²⁸ The invention involved a joint for connecting panels at different angles, which was similar to the Triennale prototype but also offered some additional features. The system consisted of a hollow tubular mullion that connected elements between the upright and the panels, and a series of “cover strips” that concealed the gaps between the components. The mullion, whose diameter could vary according to the thickness of the panels, was made of steel and flanked by connecting elements composed of extruded aluminum profiles. The latter was the core of the invention. By exploiting the extrusion technique, which allows for very complex shaping, it was possible to configure sections that would enable nine different assembly angles between the panels.

The prototype bore witness to the general interest of the designers of the time in studying the extruded joint within the framework of light prefabrication systems. The production of shaped profiles at relatively low costs enhanced the possibility of using a wide range of standard products, safeguarding the expressive autonomy of the construction detail.

The Prototype by Magnaghi and Terzaghi for the SNAM Progetti Company

For the “combined elements” section of the competition, the jury highlighted, among other issues, the proposal submitted by SNAM Progetti with the Flli Greppi company and the architects Magnaghi and Terzaghi. The proposal, accompanied by a detailed study of assembly times and operations, relied on a metal framework and lightweight panels system. The project focused on the “industrialization of the individual elements with which to compose the building,” instead of defining a “specific solution that would lead to the industrialization of a type of building.”²⁹ Thus, the project represented an “open system” of elements and connections that allowed for different planimetric configurations based on a dimensional module ($M = 10 \text{ cm}$) and its multiples (3M, 6M, 12M, 24M, and 30M). SNAM’s proposal featured a model of a “general construction cycle,” precisely defined in all its phases, and the design of a unique mullion, whose section also allowed for the connection between panels. Like the “single element” designed by BBPR, the Magnaghi-Terzaghi mullion joint was made of extruded sheet metal: two subsequent concepts led to the design of a hollow flower-like mullion, which allowed for an interlocking connection with the panels.

On the Italian Way: Histories of Successful Building Systems

Among the prototypes presented at different Triennale exhibits, only a few found practical applications in the national building market. The Gaburri system, presented at the VIII Triennale, and the FEAL system, shown at the X Triennale, were the main success stories, and both were widely adopted in Italy and abroad. The Gaburri system supported the integration of prefabricated systems on the traditional Italian building site by decomposing the concrete frame into hollow elements to be completed on site. The FEAL system presented an entirely industrialized system, combining standard products of excellence from the Italian steel industry with the ingenious customized designs of the construction details and assembly processes.

The Gaburri System

The Gaburri system, implemented at QT8, was the product of three industrial patents filed by construction expert Leon Battista Gaburri between 1941 and 1945. A technical memoir published in the magazine *Cantieri* in 1947 described the original patent as follows:

The patented CEP system allows for the construction of any type of single- or multistory building, such as minimal, medium-sized, and luxury dwellings, rural constructions, villas, seasonal cottages (also in the high mountains), hotels and industrial buildings, sheds, docks, railway stations, warehouses, canopies, shelters, pylons for power lines and cableways, piles, piers ... as well as offering the possibility of quickly restoring collapsed floors of damaged buildings, since the slab can also be used on traditional types of buildings.³⁰

On the QT8 construction site, the chronometric test of the Gaburri system verified the inventor's predictions in terms of efficiency for the large-scale construction of residential buildings. As C. Rusconi Clerici noted in a later edition of *Cantieri*, "Considering that each mold produces two castings per day and that each room requires approximately two pillars and two beams, with ten pillar molds, ten beam molds, and two plinth molds, the load-bearing structure required for the assembly of 1000 rooms can be prefabricated in 100 working days."³¹

In 1947, at the same time as it was being exhibited at QT8, the system was used abroad for the first time. Gaburri moved to Argentina, where he was awarded the contract to build housing districts as part of the Plan quinquenal de obra publica (1946–1951). While in Italy, in 1949, the launch of the INA-Casa plan prevented the system from being used in the public housing sector, the Argentina experience was a test case for the large-scale verification of the advantages and limits of the proposed procedure. In 1952, with the second Plan quinquenal de obra publica (1952–1957), the Gaburri system was used in the Barrio 17 Octubre on the outskirts of Buenos Aires, featuring heterogeneous building types from cottages to schools to multistory buildings. After this large-scale application, the system was enhanced by revisions and refinements, as can be seen by patents filed in the 1950s.³² The system, perfected in use, consisted of internally hollow columns and beams characterized by a rapid and robust connection system with the beams. Its columns and beams, completed by filling and solidifying nodes, formed a frame. Different terminations characterize the pillars: "In practice, each pillar can carry one or more beams and therefore four types of termination have been studied," thus obtaining "a row pillar," "a corner pillar," "three-beam pillars," and "crossing pillars."³³ The terminations also

THE MILAN TRIENNALE EXHIBITIONS

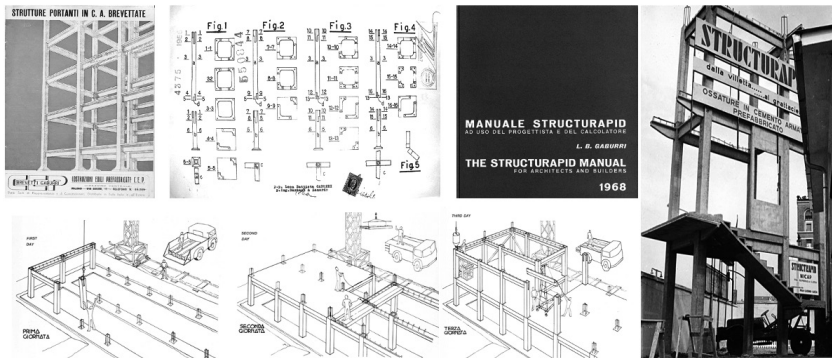


Fig. 9.5. The STRUCTURAPID Gaburri system: cover picture of the system patent, 1947, drawing of the system patent, 1956, cover pictures of the handbooks of the Gaburri system, 1968, promotional model of the system and representation of the assembly steps, 1968. Courtesy of Iris Gaburri, Iris Gaburri Private Archive, Alassio.

allow for the connection of beams that “coming out of a pillar should form angles between them of 90° and 180° ,” guaranteeing better spatial articulation of the structure. To complete the frame, the beam, T-section throughout its extension, had two rectangular-section ends that allow it to be inserted into the column cavity. The variation of the terminations was in contrast to the modularity of the structural solutions: coupled standard components rather than “special pieces” were used to deal with significant structural tasks.³⁴

In 1956, the system took on the new trademark STRUCTURAPID (building element materials, precast reinforced concrete load-bearing structures).³⁵ The patent extended to sixteen countries, including the United States, Indochina, and countries in South America and North Africa.³⁶ In Italy, eighteen construction companies acquired the STRUCTURAPID patents, providing for the production and marketing of the system throughout the country.³⁷ In 1963 a large-scale entrepreneurial project coordinated by the Montecatini Edison Industrial Group supported the extensive spread of the system in different building market sectors.³⁸ In 1968, the publication of the *STRUCTURAPID Manual for the Use of the Designer and the Engineer*, a technical manual for the use of the system in Italian and English, promised economy of time and cost and enhanced the system’s commercial success in Italy and abroad (fig. 9.5).³⁹

The FEAL System

The FEAL integral prefabrication system designed in collaboration with the architects F. Fratti and G. Pozzi and engineer C. Castiglioni was named VAR/M3, which combined the initial letters of its inventor, Varlonga, and the number 3, derived from the measure of its dimensional module, which was 300 mm.

The prototype introduced the 300-mm module, which had already been adopted internationally. The structural device, arranged according to regular spans of 5.10, 11.10, and 3.30 m, consisted of simple, unified, and standard elements such as profiles or hollow tubes, completed by pairs of tie rods. Welded steel joints ensured the connection between the components. The floor consisted of a concrete slab, reinforced with an electro-welded net cast in special recoverable steel formworks, which had shaped opposite edges that rested on the lower wing of the beams and did not require temporary supports. Like the prototype exhibited at the X Triennale, this system was also the subject of a patent (no. 582486, 1958) and was included in the FEAL catalog.⁴⁰

Among the lightweight prefabrication proposals presented at the Triennale, FEAL experienced the most significant application in Italy. The system, accompanied by numerous patent applications, was tested in the 1950s for single-story school buildings. In the 1960s it was employed in the construction of multistory schools (there were at least 154 so-called FEAL schools built in Italy between 1960 and 1963) and residential buildings.⁴¹ The system's high level of industrialization, which included maximum standardization of components, accelerated assembly times, and accelerated concrete casting, accounted for its uniqueness on the Italian scene of those years. Characterized by mixed structures of steel and concrete, extruded aluminum completions, and steel plate panels, the FEAL system demonstrated a high degree of flexibility, which meant that it could also accommodate other finishing materials.

In addition to its advanced specialization of individual components, FEAL adopted some very unusual construction-site procedures. The metal frames of the floor slabs were assembled on the ground and stacked one on top of another. Each frame was then raised to the design height, sliding on the load-bearing metal columns that acted as guides. Reinforcement bars were set, and the concrete was cast in recoverable metal formworks; the cast-on-site slabs were later replaced by reinforced concrete prefabricated slabs, called *predalles* (prefabricated reinforced concrete slabs). An example of the versatility of the FEAL system was the residential complex for the company's members in Via Laveno in Milan, designed by architect and designer Marco Zanuso (1916–2001) and built by the Edilvar cooperative between 1961 and 1963. On that occasion, Zanuso actively collaborated with the FEAL company to evaluate the possibility of pursuing more distinctly figurative outcomes through

modular systems for different building typologies, exploiting natural materials and dry assembly techniques.

Zanuso designed two identical buildings, articulated on three floors beyond the ground floor, rotated by 90°, and set on a primary geometric grid. The grid guided the alignment of the structure, windows, and internal partition walls. The square staircase block and the lift functioned as a hinge for the living space distribution. An offset of 1.65-m height of the three-level structure contrasted with the modular conception of the plan, generating an irregular and very articulated volumetry of the building.⁴² The whole project was based on the adoption of the integral VAR/M3 construction system, which involved extending the industrialized methods to the organization of the working phases and to the casting procedures. The system used HE steel columns with dry-connected main and secondary beams. The internal partitions consisted of 6-cm-thick fitted walls, made of metal, plaster, or wood, which were dry mounted. Of particular interest on the technical-architectural level was the solution adopted for the envelope, which combined technological updating and construction tradition. The wall was made of the FEAL panel, which consisted of a double metal steel plate inside and aluminum outside with an interposed insulating layer of expanded polystyrene. Its total thickness was 6 cm. The panel was connected to a series of secondary aluminum posts anchored to the floors. An 8-cm gap separated the panel from the external finish, which was made with 3-cm-thick slabs of gray Piperino trachyte. The slabs were inserted dry into natural anodized aluminum profiles, which were fixed to the rear structure.

The vertical arrangement of the slabs, the staggered horizontal joints, and the rhythmic scanning of the visible metal profiles contributed to accentuating the upward thrust of the facade, which contrasted with the horizontal lines of the balconies and the crown molding. Furthermore, the technological solution referred back to the curtain wall as a light surface that was independent of the building's primary load-bearing system, which in those years, especially in international models, more than other elements signified the new evolutionary processes in construction. In Zanuso's works, the finishing materials were also standardized; thus, the stone claddings featured a precision cutting treatment that was more akin to industrial processes than craftsmanship in adapting to the minimum tolerances allowed by the steel framework. The residential complex in Via Laveno bears witness to the conception of the traditional middle-class house as an industrialized product, based on the fully integrated approach between industrial research, construction-site evolution, and novel aesthetic values. The industrialization processes—often oriented to provide an adequate response to the need for housing—took on a singular specificity in Via Laveno, offering the technological repertoire to support and enrich the architectural language renewal (fig. 9.6).

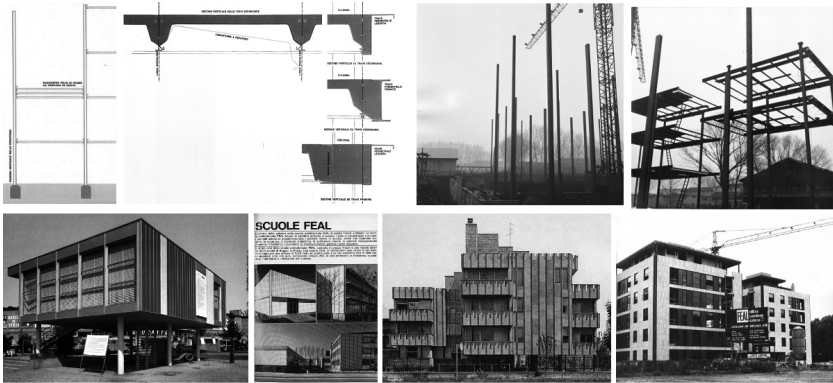


Fig. 9.6. The VAR/M3 FEAL system: construction details of the structure, steps of the assembly process, FEAL school prototype, 1958, M. Zanuso: House in Laveno street, Milan 1961–1963 and House in Solaroli Street, Milan, 1970–1971. *FEAL 1960*, Catalog, Milan: Crespi, 1960.

FEAL also exported its construction system: in 1960 foreign orders accounted for approximately 30 percent of its production.⁴³ The FEAL 1960 information brochure listed the completed constructions from 1955 on, divided into categories: in addition to the Milan and Pomezia plants, the list included thirty-five exhibition buildings (twenty-two of which were abroad), more than a hundred office buildings and industrial complexes, forty residential buildings, nursing homes, cinemas, hotels, barracks, garages, and schools. The catalog of industrialized construction elements was later extended to vertical closures, roofs, false ceilings, internal partitions, and even plant blocks, thus completing the system components.

Conclusions

Between 1947 and 1960, the Triennale fueled a vigorous architectural debate around industrialization. Its outdoor and indoor exhibitions served as a driving force for the application of exhibited construction systems in actual building practice and for the spread of technical innovations in the sector. Although QT8 did not yield the expected results in terms of the application of industrialization to mass housing, the prototype experimentation had a mobilizing effect on shaping a technical culture around the technological evolution of the building process. In particular, the involvement of the Institute of Architecture of the Milan Polytechnic in monitoring the QT8 construction sites promoted

research on construction experimentation and the transfer of industrial methodologies into construction. Giuseppe Ciribini was especially influential in the developments that led to the establishment of the Italian Committee for Building Productivity and the first course in Building Site Organization, under the auspices of the Chair of Building Architecture at the Milan Polytechnic in the 1950s.

Alongside the most compelling experiences of the VIII and X Triennale, significant echoes of the discussion on light prefabrication systems could be found in the “Proposals for Construction” section of the XI Triennale. The exhibition unit curated by Ponti was designed to demonstrate the “relations established by the various industrial productions toward construction architecture,” as it reads in the catalog.⁴⁴ The “indication of technical coherence resolving itself into stylistic coherence” was the central theme of the exhibition unity.⁴⁵ Among the many objects on display was the FEAL industrialized house element, which demonstrated the evolution of the “vertical house.”

In addition to the successful Gaburri and FEAL systems, some authorial examples bear witness to the application of the more experimental prototypes presented at the Triennales. These include the Corte di Cadore mountain village, which was commissioned by ENI (Ente Nazionale Idrocarburi) in 1955 and entrusted to architect E. Gellner. The village featured the use of the ER-Cal system, presented at the X Triennale, and based on the use of Salvit panels. The Salvit panel size of 122 cm, adopted as the building module, ensured perfect adherence to the demand for standardization of construction elements envisaged by ENI’s top management.⁴⁶ Further, the ER-Cal system optimized the thermal state of the walls, which was particularly important for the alpine climate. The village, inaugurated in 1958, represented a model of typological innovation and a clear example of constructive evolution.

The Triennale exhibitions devoted to industrialization between 1947 and 1960 contributed significantly to the architectural culture debate around the evolution of building techniques and the technological upgrade of the building site in Italy. The prototypes presented recount the various paths along which investigation developed in the transition from the urgency of reconstruction to the years of the economic miracle, framed in a delayed and fragmented process compared to such foreign experiences as those of the French and the English. On the one hand, the prototypes demonstrate the design of metal light prefabrication systems via the integration of standard components through the authorial design of the construction details. On the other hand, they document the integration of prefabricated reinforced concrete elements in the cast-on-site-based construction site. Lastly, they document the general similarity between the building industrialization process and the product design approach, and feature the designer’s active role in all production phases.

In this sense, the Milan Triennale Exhibitions, framed in the section of this volume devoted to the role of display in the development of prefabrication, were showcases for the specific Italian design approaches in the international discourse on building industrialization.

Notes

1. Anonymous, “La ricostruzione edilizia ed i quartieri sperimentali del Ministero dei LLPP;” 1949, typewritten original report, Milan, Triennale Archive (ASTRN), Milan.
2. Anonymous, “T8,” in *VIII Triennale, catalogo della mostra* (Milan: Crespi, 1947), 81–82.
3. Ibid.
4. Ibid, 88–91.
5. Ibid.
6. Anonymous, “La ricostruzione edilizia.”
7. Piero Bottoni, “Il quartiere sperimentale QT8. Le case prefabbricate,” *Metron* 26 (1948): 148.
8. Gaetano Ciocca, “Punto di partenza,” *Cantieri* 2 (1946): 2–4.
9. See letter of Cristoforo Nider to Piero Bottoni, July 3, 1947; letter of Luigi Ciarlini to Piero Bottoni, December 21, 1948: “I would like my method of building wall to be followed, without scaffolding, in just 8 days”; letter of Piero Mariani to Piero Bottoni, March 21, 1949: “Everything is done by hand [and] not being able to recover the shapes one ends up making a jet a day, therefore maddening slowness!”, ASTRN, VIII Triennale, Milan (translation by the authors).
10. Sergio Poretti, “Le tecniche edilizie: modelli per la ricostruzione,” in Paola Di Biagi, ed., *La grande ricostruzione: Il Piano INA-Casa e l’Italia degli anni Cinquanta* (Rome: Donzelli, 2010), 113.
11. A heated debate on the role of the designers in the industrial process emerged in Italy in the 1950s and 1960s alongside discussions of industrial design developments, involving art historians, architects, and artists. For insight on this topic, see Vittorio Gregotti, *Il disegno del prodotto industriale: Italia 1860–1980* (Milan: Electa, 1986).
12. Ivan Matteo Lombardo, “Propositi e realtà della X Triennale,” in *X Triennale, catalogo della mostra* (Milan: Crespi, 1954), 21.
13. Ibid., 22–23.
14. Ibid.
15. Giovanni Varlonga, patent n. 524970, 1955, Italian Central State Archive (ACS), Italian Office of Industrial Patents and Trademarks (UIBM), Rome.

16. Ivan Matteo Lombardo, "Propositi e realtà della X Triennale," in *X Triennale, catalogo della mostra* (Milan: Crespi, 1954), 21–23.
17. Ibid.
18. Anonymous, "La Casa e la Scuola," in *X Triennale, catalogo della mostra* (Milan: Crespi, 1954).
19. Ibid.
20. Ilaria Giannetti, "*La scuola è aperta a tutti: Esercizi di industrializzazione alla XII Triennale di Milano* (1960)," *Annali dell'Accademia Nazionale di San Luca* 1 (2015): 193–203.
21. Competitions, Announcement of the Competition, 1960, ASTRN, XII Triennale, Milan.
22. Ibid.
23. Ibid.
24. Competitions, Report of the Jury by Pier Luigi Nervi, 1960, ASTRN, XII Triennale, Milan.
25. Competitions, Report of the Jury by Giuseppe Ciribini, 1960, ASTRN, XII Triennale, Milan.
26. Aldo Secco, patent n. 681952, 1963, ACS, UIBM, Rome.
27. Competitions, "Report of the Jury," 1960, typewritten original document, ASTRN, XII Triennale, Milan.
28. BBPR, patent n. 675627, 1962, ACS, UIBM, Rome.
29. Mario Terzaghi collection, XII Triennale, Competitions, SNAM Progetti, Centro di Alti Studi sulle Arti Visive (CASVA) Archive, Milan.
30. Lucio Castiglione, "Case prefabbricate in cemento armato. Italia, sistema CEP brevetto Gaburri," *Cantieri* 6 (1947): 5–16.
31. Carlo Rusconi Clerici, "Prove di rendimento del sistema CEP Gaburri," *Cantieri* 20 (1950): 5–20.
32. Leon Battista Gaburri, patent n. 550844, 1956, ACS, UIBM, Rome.
33. Leon Battista Gaburri, patent n. 392951, 1941, ACS, UIBM, Rome.
34. Leon Battista Gaburri, patent n. 550844, 1956, ACS, UIBM, Rome.
35. Leon Battista Gaburri, *Manuale Structurapid ad uso del progettista e del Calcolatore* (Milan: Tip. Abbiati, 1968).
36. Ibid.
37. Ibid.
38. Ilaria Giannetti, "The Design of a System: Industrialized Schools in Italy (1960–1975)," *Tema* 1 (2016): 134–44.
39. Gaburri, *Manuale Structurapid*.
40. FEAL, *Var M3. Sistema coordinato di edilizia industrializzata*, Milan, document without date, ASTRN, Milan.
41. Giannetti, "The Design of a System."

References

- Abram, Joseph. "Modernity and Housing Production in France after WWII." *Docomomo Journal* 33, no. 65 (July 2021): 8–15. <https://doi.org/10.52200/65.A.ZA6ULTGC>.
- Abreek-Zubiedat, Fatina, and Tom Avermaete. "Concrete Conflicts: The Vicissitudes of an Ordinary Material in Modernizing Gaza City." *Journal of Urban History* (2020). <https://doi.org/10.1177/0096144220983037>.
- Abrissmatorium. "Statt Abriss und Neubau stehen wir für den Erhalt und den Umbau des Bestandes." Accessed March 7, 2023. <https://abrissmatorium.de/>.
- Aganović, Midhat, Živorad Janković, and Mihail Čepreganov, eds. *Prizemna montažna stambena izgradnja*. Beograd: Stalna konferencija gradova Jugoslavije, 1965.
- Aghaei Meibodi, Mania Rena Giesecke, and Benjamin Dillenburger. "Digital Metal. Additive Manufacturing for Casting Metal Parts in Architecture." *1st International Conference on 3D Construction Printing (3DcP), November 25–28, 2018 in Melbourne, unpublished manuscript*.
- Agrawal, Roma. "Concrete." In *Building Utopia. The Barbican Centre*, edited by Nicholas Kenyon, 179. London: Batsford, 2022.
- Åkerfelt, Mia. "Type-Planning a Fenno-Swedish Identity. The Housing Association for the Swedish Speaking Areas of Finland and the Ideal Rural Home between 1938 and 1969." *SHS Web of Conferences*, 63, *Modscapes 2018* (2019). <https://doi.org/10.1051/shsconf/20196301002>
- Åkerfelt, Mia. *Sågen och människan: Boken om Kronvik sågsamhälle*. Kronvik byaförening: Vasa, 2004.
- Albracht, Gerd, and Oswald A. Schwerdtfeger, eds. *Herausforderung Asbest*. Wiesbaden: Universum, 1991.
- Aleksandrowicz, Or. "Sandstone, Cement, Arabs, Jews: How to Build a Hebrew Town." *Teoriah Ve Bikoret* 36 (2010): 61–87. (Hebrew)
- Allweil, Asher. "Construction Industrialisation Problems in Israel and Abroad." *Engineering and Architecture* 22, no. 5 (1964). (Hebrew).
- Allweil, Asher. *The Research of Building Methodologies in Israel*. Published by the author, 1983.
- Allweil, Yael, and Inbal Ben-Asher Gitler. "Middle-Class by Design: Mass Housing Estates and the Consolidation of the Israeli Urban Middle-Class." *Docomomo Journal* 68 (2023): 18–25.

REFERENCES

- Allweil, Yael. *Homeland: Zionism as Housing Regime, 1860–2011*. New York: Routledge, 2017.
- Allweil, Yael, and Regine Heß, eds. *Housing Regimes: New Approaches to a State-Citizen-Relationship*. *Kritische Berichte*, 48, no. 2 (2020).
- Alonso, Pedro Ignacio. “Prolegomenon to a Global History of Large-Concrete Panel Systems.” In *Flying Panels: How Concrete Panels Changed the World*, edited by Pedro Ignacio Alonso and Hugo Palmarola, 32–42. Stockholm: ArkDes – The Swedish Centre for Architecture and Design, 2019. Exhibition Catalog.
- Amtlicher Bericht über die allgemeine Ausstellung deutscher Industrie- und Gewerbs-Erzeugnisse zu München im Jahre 1854*. Von der zur Einleitung und Durchführung bestellten Commission veröffentlicht. Munich: Verlag von Georg Franz 1855.
- Anderson, R. “Down to Earth: Martin Heidegger, Le Corbusier, and the Question of Dwelling, Essentially.” *Architectural Histories* 9, no. 1 (2021): 10. DOI: <https://doi.org/10.5334/ah.411>
- Angstadt, John P. “Army Disaster Relief at Skopje.” *Military Engineer* 57, no. 377 (1965): 159–61.
- Anonymous. “3 London.” *Architectural Review* 142, no. 849 (1967): 386.
- . “Abercrombie Award – Thamesmead wins.” *Architects’ Journal* 149, no. 23 (1969): 1488.
- . “Ballymun, Dublin: Industrialised Housing.” *Architects’ Journal* 144, no. 12 (1966): 730.
- . “Baustoff der Zukunft – Mit Pilzen Bauen.” Deutsche Kapitalwert, Publikationen. Accessed March 7, 2024. <https://www.dkw-ag.de/baustoff-der-zukunft-mit-pilzen-bauen/>.
- . “Bauen der Zukunft. Baustoffe aus Pilzen, Algen und Sonnenlicht.” *db Deutsche Bauzeitung*, August 2, 2021. Accessed March 7, 2024. <https://www.db-bauzeitung.de/news/baustoffe-aus-pilzen-algen-und-sonnenlicht/>.
- . “Big Beautiful Buildings: When the Future was Built. Architectures of the 1950s to 1970s in the Ruhr Area. A Project within the European Year of Cultural Heritage.” Accessed March 7, 2024. <https://bigbeautifulbuildings.de/>.
- . “Competition. Elementa ’72.” *Architects’ Journal* 155, no. 10 (1972): 493.
- . “Development Study: Housing at Erith.” *Architects’ Journal* 136, no. 24 (1962): 1337–46.
- . “Die Ausstellungsbauten.” In *Chronik der Deutsch-Nationalen Kunstgewerbe-Ausstellung in München 1888*, commissioned by the Directorium and edited by Paul von Salvisberg, no. 2/3, 52–54. Munich: Verlag der Academ. Monatshefte, 1888/1889.
- . “Die Wohnung passt sich der Familie an.” *NHM* 19, no. 1 (1973): 13–22.
- . “Elementa ’72.” *Architects’ Journal* 156, no. 44 (1972): 995.
- . “English Encampments,” *Progressive Architecture* 7 (1977): 58–63.
- . “GLC: Thamesmead on Show.” *Architects’ Journal* 145, no. 11 (1967): 658.

REFERENCES

- .“GLC. Plastic Cladding for Multi-Storey Flats.” *Architects’ Journal* 142, no. 21 (1965): 1201–6.
- .“Homes in a Winding Ribbon.” *Architects’ Journal* 147, no. 22 (1968): 1209.
- .“Hook New Town, England.” *Canadian Architect* 7, no. 9 (1962): 66–73.
- .“Housing Construction in the USSR (Жилищное строительство в СССР).” *Architektura SSSR* 11 (1957): 36–37.
- .“In Inghilterra, tre quartieri residenziali, una scuola.” *Domus* 504 (1971): 7–9.
- .“Konsentrert småhusbebyggelse: Innlegg i debatten.” *Artikler og foredrag samlet av Treopplysningsrådet*. Oslo: Treopplysningsrådet, 1972.
- .“LCC housing at Morris Walk, Woolwich.” *Official Architecture and Planning* 26, no. 3 (1963): 231.
- .“Ministry of Housing and Local Government (MOHLG) Aftermath of Ronan Point.” *Architects’ Journal* 148, no. 46 (1968): 1111–1113.
- .“Montažna izgradnja. “Građevinar” – Ivanić-Grad: montažni objekti od siporeksa.” *Čovjek i prostor* 14, no. 166 (1967): 5–7.
- .“NEWS: HOOK NEW TOWN – First Reports of Mark II Town.” *Architects’ Journal* 133, no. 3433 (1961): 167.
- .“News: WOOLWICH-ERITH – Imagination and Excitement in Large Scale Development.” *Architects’ Journal* 143, no. 12 (1966): 733–35.
- .“Nova prigradska naselja u Skoplju.” In *Urbanistička ostvarenja u Jugoslaviji. 3. kongres – 12. savjetovanje*. Rijeka, 1965, edited by Vladimir Bjelikov, Josip Svoboda, Ranko Radović, Rajko Rajić, Branko Nedović, and Vladimir Čavić, 18–21. Beograd: Urbanistički savez Jugoslavije – Stalna konferencija gradova Jugoslavije, 1965.
- .“Precast Construction: Elementa 72.” *Deutsche Bauzeitung* 110, no. 7 (1976): 21–38.
- .“Preview ‘67: Housing: Woolwich-Erith Phase 1, London.” *Architectural Review* 141, no. 839 (1967): A20.
- .“Puštena u pogon tvornica montažnih kuća u Zavidovićima.” *Krivaja* 2, no. 20 (1950): 1.
- .“Savetovanje o prizemnoj montažnoj izgradnji.” *Komuna* 12, no. 10 (1965): 41.
- .“Stambena zajednica. Zaključci VII. Savjetovanja Saveza urbanista Jugoslavije.” *Čovjek i prostor* 5, no. 78 (1958): 1&5.
- .“Suuret jällleenrakennustehtävät loivat puutaloteollisuutemme.” *Maaseudun Tulevaisuus*, May 4, 1965.
- .“Thamesmead.” *Ekistics* (Athens), 29, no. 171 (1970): 149–52.
- .“Thamesmead: Ein Programm steht zur Verwirklichung.” *Bauen + Wohnen* 24, no. 10 (1970): 357–361.
- .“Thamesmead. Window and Roof Failures.” *Architects’ Journal* 154, no. 31 (1971): 234.
- .“Thamesmead.” *Official Architecture and Planning* 30, no. 4 (1967): 555.

REFERENCES

- . “Thamesmead.” *Werk* 54, no. 8 (1967): 511.
- . “Wohnbebauung am Themse-Ufer.” *Bauen + Wohnen* 21, no. 12 (1967): 473–74.
- . “Woolwich–Erith: Eine neue Stadt im Osten Londons.” *Baumeister* 64, no. 3 (1968): 269–78.
- . “Zaključci savjetovanja delegata društava arhitekata Jugoslavije održanog dne 6.–8. studenoga u Sarajevu.” *Arhitektura* 6, no. 5 (1952): 51–53.
- . *10 vuotta Suomalaista puutaloteollisuutta*. Puutalo Oy: Helsinki, 1950.
- Arieff, Allison, and Bryan Burkhardt. *Prefab*. Layton, UT: Gibbs Smith, 2002.
- Avermaete, Tom. “Designing for the Anonymous Collective: The Architectural Culture of the 1960s.” *Nordic Journal of Architecture* 2, no.1 (2012): 51–56.
- Avermaete, Tom, and Janina Gosseye. *Urban Design in the 20th Century: A History*. Zurich: gta Verlag, 2021.
- Bailey Jr., John M., and Henry Schubart Jr. “Thamesmead, England.” *Architectural Forum* 131, no. 1 (1969): 58–65.
- Bartezky, Arnold, Nicolas Karpf, and Greta Paulsen. *Architektur und Städtebau in der DDR. Stimmen und Erinnerungen aus vier Jahrzehnten*. Berlin: DOM Publisher, 2018.
- Baylon, Mate. “O izgradnji montažnih zgrada sa konkretnim primjerom jednog finskog načina izgradnje.” *Naše građevinarstvo* 2, no. 9 (1948): 555–63.
- Belcovich, Nikolay, and Viktor Schavrin. *Local Economy and Local Budgets of the USSR (Местное хозяйство и местные бюджеты СССР)*. Moscow: Gosplan, 1938.
- Bellodi, N., C. de Angelis. “L’architettura fatta: verifica a Thamesmead.” *Parametro* 10 (1972): 62–67.
- Ben-Asher Gitler, Inbal. “New Brutalism, New Nation: Ram Karmi’s Assimilation of Brutalism in Israel’s Arid Region Architecture.” *Journal of Architecture* 26, no. 3 (2021): 316–39.
- Ben-Asher Gitler, Inbal, and Anat Geva, eds. *Israel as a Modern Architectural Experimental Lab, 1948–1978*. Bristol, UK: Intellect Books, 2020.
- Ben-Asher Gitler, Inbal, and Shlomit Tamari. “The Marcus Family Campus: New Design and Contemporary Architecture.” In *Science and Scholarship in the Negev: The Story of Ben-Gurion University of the Negev*, edited by Yehuda Grados and Isaac Nevo, 551–80. Be’er Sheva: Ben-Gurion University of the Negev Press, 2014. (Hebrew).
- Ben-Israel, Arnon. *Between Urban Imagination, Memory, and Everyday Life: Bayit Vagan/Bat Yam 1926–1950*. Bat Yam: Center for Mediterranean Urbanism, 2011. (Hebrew).
- Bendixson, Terence. “Criticism: Milton Keynes: the Newest New Town.” *Architectural Review* 146, no. 870 (1969): 107.
- Benjamin, Walter. “Das Kunstwerk im Zeitalter seiner technischen Reproduzierbarkeit.” In *Walter Benjamin: Gesammelte Schriften*, vol. 1,

REFERENCES

- Werkausgabe, vol. 2, edited by Rolf Tiedemann and Hermann Schweggenhäuser, 431–69. Frankfurt am Main: Suhrkamp Verlag, 1980.
- Bergdoll, Barry. “Home Delivery: Viscidities of a Modernist Dream from Taylorized Serial Production to Digital Customization.” In Bergdoll and Christensen, *Home Delivery*, 12–26.
- Bergdoll, Barry, and Peter Christensen. *Home Delivery: Fabricating the Modern Dwelling*, edited by Ron Broadhurst. New York: The Museum of Modern Art, 2008. Exhibition catalog.
- Bergl, Odd. *Konferanse om: Byggesystemer og hustyper for konsentrert småhusbebyggelse: 24.–26. september 1979*. Fagernes: Norske sivilingeniørers forening NIF, 1979.
- Birdwell-Pheasant, Donna, and Denise Lawrence-Zuniga. “Introduction: Houses and Families in Europe.” In *House Life: Space, Place and Family in Europe*, edited by Donna Birdwell-Pheasant and Denise Lawrence-Zuniga, 1–35. Oxford: Berg, 1999.
- Bjørneboe, Jens. “Brukernes Medvirkning på Skjetten.” *Byggekunst* 53, no.4 (1971): 135–37.
- Bjørneboe, Jens, and Ashbjørn Nedrebo. *Vurderingskriterier for rekkehus: En utredning for Den norske stats husbank*, Arbeidsrapport 75. Oslo: Norges byggforskningsinstitutt F-3003, 1975.
- Bjørnsen, Bjørn, Anne-Kristine Kronborg, and OBOS. *Hele folket i hus: OBOS 1970–2009*. Oslo: Gaidaros, 2009.
- Bjørnsen, Bjørn, and OBOS. *Hele folket i hus: OBOS 1929–1970*. Oslo: Boksenteret, 2007.
- Blanchet, Elisabeth. *Prefab Homes*. Oxford: Shire Publications, 2014.
- Blokhin, Boris. *Architecture of Large-Block Structures (Архитектура крупноблочных сооружений)*. Moscow: Gosudarstvennoye Arkhitekturnoye Izdatel'stvo Akademii Arkhitektury SSSR, 1941.
- Blumenau, Igor. “Opitni objekti Građ. instituta Ministarstva građevina NRS.” *Naše građevinarstvo* 3, no. 8 (1949): 607–613.
- Bock, Thomas, and Thomas Linner. *The Cambridge Handbooks in Construction Robotics. Elementary Technologies and Single-Task Construction Robots*. New York: Cambridge University Press, 2016.
- Bode, Peter M. “Verschiebbare Wände im Schneckenhaus.” *Der Spiegel* 14 (1975): 40–44.
- Borisovsky, Georgiy. “New Architecture of Large-Block Buildings” (Архитектура новых крупноблочных зданий).” *Arhitektura SSSR* 10 (May 1940): 10–13.
- Bosanquet, Nick, and Andrew Haldenby. “Churchill’s Push for Prefabs: Real ‘Homes for Heroes.’” April 18, 2023. Accessed March 18, 2024. <https://winstonchurchill.hillsdale.edu/bosanquet-haldenby-prefabs/>.
- Bottoni, Piero. “Il quartiere sperimentale QT8. Le case prefabricate.” *Metron* 26 (1948): 148.

REFERENCES

- Brand, Roy, and Ori Scialom, eds. *The Urburb: Patterns of Contemporary Living*. Montreal: Sternthal Books, 2014.
- Brandt, Andrea. "Krankes Haus." *Der Spiegel* 59, no. 9 (2006): 52–53.
- Brassai, Gilberte. *The Artists of My Life*. Translated by Richard Miller. New York: Viking, 1982.
- Breiphof, Florian. "Metastadt-Bausystem. Richard J. Dietrich." In *Home Delivery: Fabricating the Modern Dwelling*, 136–37. New York: MoMA, 2008.
- Brenner, Matthias, and Silke Langenberg. "High-Tech Architektur. Herausforderungen und Möglichkeiten der Erhaltung." In *Denkmal Postmoderne. Bestände eine (un)geliebten Epoche*, edited by Kirsten Angermann, Hans-Rudolf Meier, Matthias Brenner, and Silke Langenberg, 239–245. Basel: Birkhäuser, 2024.
- Buflod, Halvdan. *Teknologisk endring av småhusbyggingen: en analyse av drivkrefter og samfunnsmessige konsekvenser*. Oslo: Norsk institutt for by- og regionforskning, 1985.
- Bullock, Nicholas. *Building the Post-War World: Modern Architecture and Reconstruction in Britain*. London: Routledge, 2002.
- Burchardt, Jørgen. "Systems for Standardized Precast Concrete Elements: The Case of the Larsen & Nielsen System." In *Timber and Construction: The Proceedings of the Ninth Conference of the Construction History*, edited by J. WP. Campbell, Nina Baker, Mike driver, Michael Heaton, Natcha Ruamsanitwong, Christine Wall, and David Yeomans, 497. Morrisville: LULU, 2022.
- Cahaner, Lee. "The Development of Spatial and Hierarchical Structure of Ultraorthodox Population in Israel." PhD diss., Haifa University, 2009. (Hebrew)
- Carbone, Carlo. "The Kit of Parts as Medium and Message for Developing Post-War Dwellings." *Histories of Postwar Architecture* 2, no. 4 (2019): 54–74. <https://doi.org/10.6092/issn.2611-0075/9648>.
- Carranza, Luis E., and Fernando Luiz Lara. *Modern Architecture in Latin America: Art, Technology, and Utopia*. Austin: University of Texas Press, 2014.
- Chadwick, Peter, and Ben Weaver, eds. *The Town of Tomorrow: 50 Years of Thamesmead*. London: Here Press, 2020.
- Chayako, Aleksey, and Kazimir Khalturin. "Large-Scale Block Construction in Leningrad (Крупноблочное строительство в Ленинграде)." *Arhitektura SSSR* 10 (October 1954): 22–29.
- Cheng, Irene. "Structural Racism in Modern Architectural Theory." In *Race and Modern Architecture. A Critical History from the Enlightenment to the Present*, edited by Irene Cheng, Charles L. Davis II, and Mabel O. Wilson, 134–52. Pittsburgh: University of Pittsburgh Press, 2020.
- Chiambretto, Bruno. *Le Corbusier à Cap-Martin*. Marseilles: Parenthèses, 1987.
- Christensen, Peter. "Habitat '67. Moshe Safdie." In Bergdoll and Christensen, *Home Delivery*, 124–27.

REFERENCES

- Ciocca, Gaetano. “Punto di partenza.” *Cantieri* 2 (1946): 2–4.
- Clement, Alexander. *Brutalism: Post-War British Architecture*. Ramsbury: Crowood Press, 2012.
- Cohen, Jean-Louis. “La forma urbana del realismo socialista.” In *URSS 1917–1978: La città, l’architettura*, edited by Jean-Louis Cohen, Jean-Louis De Michelis, and Manfredo Tafuri, 141–200. Rome: Officina Edizioni, 1979.
- Cohen, Maurizio. “Willy Van Der Meeren’s Ieder Zijn Huis: Saving a Fragile Giant.” *Docomomo Journal* 28, no. 54 (2016): 66–71. <https://doi.org/10.52200/54.A.JG9AW7GL>.
- Cohen, Nir. “Territorial Stigma Formation in the Israeli City of Bat Yam, 1950–1983: Planning, People and Practice.” *Journal of Historical Geography* 39 (2013): 113–24. <https://doi.org/10.1016/j.jhg.2012.07.004>
- Collins, Michael P. “The Development of Town Planning Education at University College London, 1914–1969: The Contributions of Professors SD Adshead, LP Abercrombie, and WG Holford.” *Planning Perspectives* 31, no. 2 (2016): 283–98.
- Collison, Peter. “Town Planning and the Neighborhood Unit Concept.” *Public Administration* 32, no. 4 (1954): 463–69.
- Construction Certification of New Products and Building Technologies in Israel*. Haifa: Building Research Station, Technion, 1968.
- Crane, David A., Edward J. Logue, Keyes, Lethbridge, and Condon (Firm). *Developing New Communities; Application of Technological Innovations*. Washington, DC: US Department of Housing and Urban Development, 1970.
- Crestoe, Mishel. “Coloured Facades of Residential Buildings.” (Цветная отделка фасадов жилых зданий). *Arhitektura SSSR* 2 (1938): 58–63.
- Cupers, Kenny. “The Invention of Indigenous Architecture.” In Cheng, Davis, and Wilson, *Race and Modern Architecture*, 187–199.
- Cupers, Kenny. *The Social Project: Housing Postwar France*. Minneapolis: University of Minnesota Press, 2014.
- Davidi, Sigal. “Housing Ideas at Building Exhibitions in Eretz Israel, 1934–1944.” In Allweil and Heß, *Housing Regimes*: 26–35.
- Decree of the Central Committee of the CPSU and the Council of Ministers of the USSR “On the Elimination of Excesses in Design and Construction” of 04.11.1955 (Постановление ЦК КПСС и Совета Министров СССР “Об устранении перегибов в проектировании и строительстве”). State Archives of the Russian Federation (GARF): F. 5446 op. 1. D. 415.
- Delatte, Norbert J., Jr. *Beyond Failure: Forensic Case Studies for Civil Engineers*. Reston: ASCE Press, 2009.
- Department of the Environment. *Homes for Today & Tomorrow*. London: HMSO, 1961.
- DFG Priority Program SPP 2255. “Kulturerbe Konstruktion.” Accessed March 7, 2024. <https://kulturerbe-konstruktion.de/>.

REFERENCES

- Digital Building Technologies. Accessed March 19, 2024. <https://dbt.arch.ethz.ch/project/tor-alva/>.
- Dobloug, Margrethe. *Håndbok 2 etg rekkehus og hage: til og for folk i Skjettenbyen*. Oslo: I/S Skjettenprosjektering, 1972.
- Dobloug, Margrethe. “Skjetten. A User’s Manual.” *Nordic Journal of Architecture* 2, no. 1 (2012): 30–37.
- Dolff-Bonekämper, Gabi. *Das Hansaviertel: Internationale Nachkriegsmoderne in Berlin*. Berlin: Verlag Bauwesen, 1999.
- Dragutinovic, Anica, Uta Pottgiesser, and Michael Melenhorst. “The Minimum Dwelling: New Belgrade Flat and Reflections on the Minimum Today.” In *100 Years Bauhaus: What Interest Do We Take in Modern Movement Today?* edited by Michael Melenhorst, Uta Pottgiesser, Theresa Kellner, and Franz Jaschke, 352–65. Lemgo: Technische Hochschule Ostwestfalen-Lippe, 2019. <https://doi.org/10.25644/ket1-wp97>.
- Dreesbach, Anne. *Gezähmte Wilde: Die Zurschaustellung “exotischer” Menschen in Deutschland 1870–1940*. Bielefeld: Transcript Verlag, 2005.
- Durth, Werner, and Niels Gutschow. *Architektur und Städtebau der fünfziger Jahre*. Bonn: Köllen, 1990.
- Eckardt, Frank, Hans-Rudolf Meier, Ingrid Scheurmann, and Wolfgang Sonne, eds. *Welche Denkmale welcher Moderne? Zum Umgang mit Bauten der 1960er und 70er Jahre*. Berlin: Jovis, 2017.
- Efrat, Zvi. *The Object of Zionism: The Architecture of Israel*. Leipzig: Spector Books, 2018.
- Elser, Oliver, Philip Kurz, and Peter Cachola Schmal, eds. *SOS Brutalism: A Global Survey*, published in cooperation with Deutsches Architekturmuseum DAM and Wüstenrot Foundation. Frankfurt am Main: Deutsches Architekturmuseum, 2017. Exhibition catalog.
- Enjolras, Christian. *Jean Prouvé. Les maisons de Meudon, 1949–1999*. Paris: Editions de la Villette, 2003.
- Entenza, John. “Announcement. The Case Study House Program.” *Arts & Architecture* 62, no. 1 (January 1945): 37–40.
- Essaian, Elisabeth. *Le prolétariat ne se promène pas nu: Moscou en projets*. Marseille: Éditions Parenthèses, 2021.
- Fainholtz, Tzafir. “The Jewish Farmer, the Village and the World Fair: Politics, Propaganda, and the “Israel in Palestine” Pavilion at the Paris International Exhibition of 1937.” *SHS Web of Conferences*, 63, *Modscapes* 2019, <https://doi.org/10.1051/shsconf/20196301002>.
- Fassaden by ROBmade. Vom digitalen Entwurf zum Bauteil. Accessed March 19, 2024. <https://keller-unternehmungen.ch/de-ch/keller-unternehmungen/sortiment/fassaden-robmade.html>.
- FEAL 1960*, Catalog. Milan: Crespi, 1960.

REFERENCES

- Feldhay Brenner, Rachel. *Inextricably Bonded: Israeli Arab and Jewish Writers Re-Visioning Culture*. Madison: University of Wisconsin Press, 2004.
- Finch, George. “News: WOOLWICH-ERITH – Riverside Development Made Clear.” *Architects’ Journal* 143, no. 17 (1966): 1055.
- Fisher, Matthew W. “Prefabrication and the Postwar House: the California manifesto.” In *The Value of Design: Design Is at the Core of What We Teach and Practice*, edited by Mark Gillem & Phoebe Crisman, 402–409. Washington, DC: ACSA Press, 2009.
- Flierl, Thomas. *Standardstädte: Ernst May in der Sowjetunion 1930–1933. Texte und Dokumente*. Berlin: Suhrkamp Verlag, 2012.
- Forbes Cockell, Seton. “En voie de réalisation: Une cité riveraine pour 60 000 habitants.” *Habitat* 41, no. 10 (1968): 48–50.
- Franchini, Alberto. *Il Villaggio Matteotti a Terni. Giancarlo De Carlo e l’abitare collettivo*. Rome: L’Erma di Bretschneider: 2020.
- Freigang, Christian. *Die Moderne: 1800 bis heute. Baukunst, Technik, Gesellschaft*. Darmstadt: Wissenschaftliche Buchgesellschaft, 2015.
- Gaburri, Leon Battista. *Manuale Structurapid ad uso del progettista e del Calcolatore*. Milan: Tip. Abbiati, 1968.
- Garnier, Charles, and A[uguste] Ammann. *L’Habitation Humaine*. Paris: Hachette, 1892.
- Gaskell, S. Martin. *Model Housing: From the Great Exhibition to the Festival of Britain*. London: Mansell 1986.
- General Plan for the Reconstruction of the City of Moscow: Decrees and Materials* (Генеральный план реконструкции города Москвы. Постановления и материалы). Moscow: Gosudarstvennoye Izdatel’stvo, 1936.
- Gepfert, Alexander C. T. *Fleeting Cities: Imperial Expositions in Fin-de-Siècle Europe*. New York: Palgrave Macmillan, 2010.
- Germadnik, Christian-Lars. “Two Unequal Sisters – Barbican and South Thamesmead – The Influence of the Built Environment on the Social Milieu.” MSc diss., University College London, 2005.
- German Institute for Economic Development, ed. *Enquete über die Bauwirtschaft*. Commissioned by the Federal Government. Stuttgart: Forum, 1973.
- Giannetti, Ilaria. “La scuola è aperta a tutti. Esercizi di industrializzazione alla XII Triennale di Milano (1960).” *Annali dell’Accademia Nazionale di San Luca* 1 (2015): 193–203.
- Giannetti, Ilaria. “Reinforced Concrete, Industry and Design: Balency Prefabricated Panels between France and Italy.” In *Iron, Steel and Building. Studies in History of Construction. Proceedings of the Conference of Construction History Society*, edited by J. WP. Campbell, Karey Draper, Yiting Pan, Nina Baker, Michael Heaton, David Yeomans, Michael Driver, and Natcha Ruamsanitwong, 627. Morrisville: LULU, 2020.

REFERENCES

- Giannetti, Ilaria. “The Design of a System: Industrialized Schools in Italy (1960–1975).” *Tema* 1 (2016): 134–44.
- Gilbert, Martin. *Israel: A History*. London: Black Swan, 1998.
- GLC. *Thamesmead: The First Areas*. 1976, Thamesmead Community Archive, accessed June 1, 2022. <https://thamesmeadcommunityarchive.org.uk/explore/stories/construction-the-making-of-thamesmead>.
- GLC. *Woolwich–Erith: A Riverside Project*. London: London Metropolitan Archives, 1966.
- Glendinning, Miles. “Mass Housing and Extensive Urbanism in the Baltic Countries and Central/Eastern Europe: A Comparative Overview.” In *Housing Estates in the Baltic Countries. The Legacy of Central Planning in Estonia, Latvia and Lithuania*, edited by Daniel Baldwin Hess and Tammaru Tiit. Cham: Springer Open, 2019, 117–36.
- Glendinning, Miles. *Mass Housing: Modern Architecture and State Power – a Global History*. London: Bloomsbury Visual Arts, 2021.
- Glikson, Arthur. “Problems of Housing Planning in New Towns and Neighborhoods.” In *Binyan Ha’Aretz. Public Housing in the 1950s*, edited by Miriam Tovia and Michael Boneh, 54–59. Tel Aviv: Hakibbutz Hameuchad, 1999. (Hebrew)
- Gluszek, Michal, Malgorzata Kunecka, Jagna Jaworowska, and Daniel Kunecki. *Etnografia do kieszeni*, vol. 4. Warsaw: Stowarzyszenie “Pracownia Etnograficzna” im. Witolda Dynowskiego, 2013.
- Goidea, Ana, Dimitrios Floudas, and David Andreen. “Pulp Faction. 3d Printed Material Assemblies through Microbial Biotransformation.” In Burry, Sabin, Sheil, and Skavara, *Fabricate*, 42–49.
- Gold, John R. *The Practice of Modernism. Modern Architects and Urban Transformation, 1954–1972*. London: Routledge, 2007.
- Gold, John R. “Towards the Functional City? MARS, CIAM and the London Plans, 1933–42.” In *The Modern City Revisited*, edited by Thomas Deckker, 81–99. London: Routledge, 2000.
- Goodovitch, Israel, S. Ben Avraham, and J. Varsano. *The Saddle System for Reinforced Concrete Structures*. Tel Aviv: Ministry of Housing, N.D. [c. 1972].
- Gorgolewski, Mark T., “Prefabrication and Sustainability in UK Housing.” *Conference Proceedings* by ASHRAE, 1–6. Atlanta, Georgia: ASHRAE Buildings IX, 2004.
- Gramazio Kohler Research. Accessed March 7, 2024. <https://gramaziokohler.arch.ethz.ch/web/d/projekte/52.html>.
- Graser, Konrad, Marco Baur, Aleksandra Anna Apolinarska, Kathrin Dörfler, Norman Hack, Andrei Jipa, Ena Lloret-Fritschi, Timothy Sandy, Daniel Sanz Pont, Daniel M. Hall, and Matthias Kohler. “DFAB House. A Comprehensive Demonstrator of Digital Fabrication in Architecture.” In *Fabricate: Making Resilient Architecture*, edited by Jane Burry, Jenny Sabin, Bob Sheil, and Marilena Skavara, 130–39. London: UCL Press, 2020.

REFERENCES

- Groag, Shmuel and Lilach Harel. "Ramat HaNasi Neighbourhood." Documentation File, Municipality of Bat Yam, 2016.
- Gropius, Walter. "Systematische Vorarbeit für rationellen Wohnungsbau." *Bauhaus* 2 (1927): 1–2. Bauhaus Bookshelf. Accessed May 29, 2022, https://www.bauhaus-bookshelf.org/bauhaus_journals_1926_1931-1.html.
- Grønvoold, Ulf. "Norsk strukturalisme." *Byggekunst* 65, no. 2 (1983): 60–63.
- Guidicini, Paolo. "Dall'Inghilterra una città in più: Thamesmead, una città per vivere." *Parametro* 6 (1970): 62–67, 121.
- Guldvog Arnfinn et al. *Oslo bolig- og sparelag: 1929–1954*. Oslo: OBOS, 1954.
- Guttu, Jon. "Den gode boligen": fagfolks oppfatning av boligkvalitet gjennom 50 år." PhD diss., Arkitektthøgskolen i Oslo, 2003.
- Harlap, Amiram, ed. *Israel Builds 1973*. Tel Aviv: Planning and Engineering Wing at the Israel Ministry of Housing, 1973.
- Harlap, Amiram, ed. *Israel Builds 1977*, 3rd ed. Planning and Engineering Wing at the Israel Ministry of Housing, 1980. (English and Hebrew)
- Hasche, Katja, Torben Kiepke, and Tanja Scheffer, eds. *Big Heritage. Halle Neustadt?* Halle: Mitteldeutscher Verlag, 2016.
- Hassler, Uta. "Umbau, Sterblichkeit und langfristige Dynamik." In *Umbau: Über die Zukunft des Baubestands*, edited by Uta Hassler, Niklaus Kohler, and Wilfried Wang, 39–59. Tübingen: Wasmuth & Zohlen, 1999.
- Hassler, Uta, and Catherine Dumont d'Ayot, eds. *Bauten der Boomjahre: Paradoxien der Erhaltung*. Gollion: Infolio, 2009.
- Hassler, Uta, and Niklaus Kohler, "Einführung." In *Umbau: Über die Zukunft des Baubestands*, edited by Uta Hassler, Niklaus Kohler, and Wilfried Wang, 4–7. Tübingen: Wasmuth & Zohlen, 1999.
- Hecker, Zvi. "The Cube and the Dodecahedron in My Polyhedric Architecture." *Leonardo* 13 (1980): 272–75.
- Heine, Katja, Klaus Rheidt, Frank Henze, and Alexandra Riedel, eds. *Von Handaufmass bis Hightech III: 3D in der historischen Bauforschung*. Darmstadt: Philipp von Zabern, 2011.
- Hemsoe, Oddvar. *Moelven 1899–1999*. Moelv: Moelven industrier, 1999.
- Henigsfeld, Ervin. "Izgradnja prvih opitnih montažnih kuća u Zagrebu." *Naše građevinarstvo* 4, no. 8 (1950): 396–408.
- Herbert, Gilbert. *Pioneers of Prefabrication: The British Contribution in the Nineteenth Century*. Baltimore: Johns Hopkins University Press, 1978.
- Heß, Regine. "(Re-)Building Nations: Housing Regimes in Postwar Israel and Germany." In Allweil and Heß, *Housing Regimes*: 48–60.
- Heß, Regine. "Ephemerpermanent. Eine Architekturgeschichte großer Ausstellungen." Unpublished habilitation manuscript, last modified April 30, 2024. Microsoft Word file.

REFERENCES

- Heuter, Christoph. "Zu nah dran? Bauten der 1960er Jahre als Herausforderung für die Denkmalpflege." In *denkmal!moderne: Architektur der 60er Jahre. Wiederentdeckung einer Epoche*, edited by Adrian von Buttlar and Christoph Heuter, 28–35. Berlin: Jovis, 2007.
- Hild, Andreas, and Andreas Müsseler, eds. *Neuperlach ist schön*. Munich: Franz Schiermeier Verlag, 2018.
- "History." Prefab Museum. Accessed May 29, 2022. <https://www.prefabmuseum.uk/content/history/history>.
- Hitchcock, Henry-Russell, and Philip Johnson. *The International Style*. 2nd revised ed. New York and London: W. W. Norton, 1966.
- Hölz, Christoph. *Der Civil-Ingenieur Franz Jakob Kreuter: Tradition und Moderne 1813–1889*. Munich and Berlin: Deutscher Kunstverlag, 2003.
- Hölz, Christoph. "Glaspalast." In *Zwischen Glaspalast und Maximilianeum: Architektur in Bayern zur Zeit Maximilians II. 1848–1864*, edited by Winfried Nerdinger, 120–25. Munich: Architekturmuseum der TU München. Exhibition Catalog. Eurasburg: Ed. Minerva, 1997.
- Höper, Wolfgang E. *Asbest in der Moderne: Industrielle Produktion, Verarbeitung, Verbot, Substitution und Entsorgung*. Münster: Waxmann, 2008.
- Horvat, Lea. "Kriza na papiru? O sociološkoj kritici kolektivnog stanovanja u kasnom socijalizmu." *Život umjetnosti* 53, no. 107 (2020): 80–93.
- Hultberg, Erik. "Systemgrunlaget for rekkehusene i Skjettenbyen." *Byggekunst* 52, no.4 (1970): 147–148.
- Husbankens prosjekteringsystem for småhus*. Oslo: Den Norske stats husbank, Arkitektkontoret, 1973.
- Hvattum, Mari. "Nordic Monumentality." *Nordic Journal of Architecture* 2, no.1 (2012): 8–12.
- I. I. "Konferencija po pitanju montažnih kuća i konstrukcija u Građevinskom institutu Ministarstva građevina FNRJ." *Naše građevinarstvo* 2, no. 12 (1948): 908–9.
- ICOMOS Suisse, Arbeitsgruppe System & Serie, ed. *System & Serie. Systembau in der Schweiz: Geschichte und Erhaltung*. Zurich: gta-Verlag 2022.
- Ilyin, Leontiy. "Architecture of Large-Block Construction." (Архитектура крупноблочного строительства). *Stroitel'stvo Moskvy* 18 (1940): 3–4.
- Israeli Building Center Quarterly*. Tel Aviv: Israeli Building Center, 1970–1981.
- Jančković, Milan. "S velikih gradilišta u Makedoniji." *Građevinar* 16, no. 12 (1964): 432–36.
- Janković, Milica. "Nova prigradska naselja u Skoplju." *Arhitektura-urbanizam* 5, no. 28 (1964): 36–41.
- Janićijević, M. "Izložba o obnovi i izgradnji Skoplja." *Komuna* 11, no. 2 (1964): 35
- Janković, Milica. "Tipovi montažnih stambenih zgrada u prigradskim naseljima Skoplja." *Komuna* 11, no. 10 (1964): 34–35.

REFERENCES

- Jaros, Jerzy. *Historia górnictwa węglowego w Polsce Ludowej (1945–1970)*. Warsaw: Państwowe Wydawnictwo Naukowe, 1973.
- Jencks, Charles. *Le Corbusier and the Continual Revolution in Architecture*. New York: Monacelli Press, 2000.
- Jenger, Jean. *Le Corbusier: choix de lettres*. Basel: Birkhäuser, 2002.
- Jovanović, Jelica. “New Belgrade: Past-Present-Future, and the Future That Never Came”. *Docomomo Journal* 33, no. 59 (November 2018): 68–73. <https://doi.org/10.52200/59.A.D8RTDTPT>.
- Jubilee Statistical Yearbook, 1922–1982*. (Юбилейный статистический ежегодник 1922–1982). Moscow: Gosplan, 1982.
- Jung, Hyun-Tae. “‘Technologically’ Modern: The Prefabricated House and the Wartime Experience of Skidmore, Owings and Merrill.” In *Sanctioning Modernism: Architecture and the Making of Postwar Identities*, edited by Vladimir Kulic, Timothy Parker, and Monica Penick, 186–218. Austin: University of Texas Press, 2014.
- Junghans, Kurt. *Das Haus für alle. Zur Geschichte der Vorfertigung in Deutschland*. Berlin: Ernst & Sohn, 1994.
- Kaganovič, Lazar Moisevič. *L’urbanisme soviétique: La réorganisation socialiste de Moscou et des autres villes de l’U.R.S.S.* Paris: Bureau d’Editions, 1932.
- Kahana, Fredi. *Not a City nor Village—The Kibbutz Architecture 1910–1990*. Tel Aviv: Yad Tabenkin, 2011.
- Kallus, Rachel, and Hubert Law-Yone. “National Home/Personal Home: Public Housing and the Shaping of National Space in Israel.” *European Planning Studies* 10, no. 6 (2002): 765–79.
- Katz, Irit. *The Common Camp: Architecture of Power and Resistance in Israel–Palestine*. Minneapolis: University of Minnesota Press, 2022.
- Kieran, Stephen, and James Timberlake. *Refabricating Architecture: How Manufacturing Methodologies Are Poised to Transform Building Construction*. New York: McGraw-Hill Education, 2003.
- Kilroy, Bernard. “After Parker Morris.” *Architects’ Journal* 176, no. 66 (1980): 957–58.
- Knaack, Ulrich, Sharon Chung-Klatte, and Reinhard Hasselbach. *Prefabricated Systems: Principles of Construction*. Basel: Birkhäuser, 2021.
- Kolacio, Zdenko. “Stambena zajednica kao predmet prostornog planiranja.” *Čovjek i prostor* 10, no. 119 (1963): 9.
- Kopp, Anatole. *L’architecture de la période stalinienne*. Grenoble: P.U.G., 1978.
- Kostet, Jenna, and Juhani Kostet. *Varsinais-suomalaista Suomi-Israel Ystävyysoimintaa*. Turku: Kluutti Oy, 2014.
- Kowalski, Rolf-Dieter. *Schaltechnik im Betonbau*. Düsseldorf: Werner, 1977.
- Kozlovsky, Roy. “Temporal States of Architecture: Mass Immigration and Provisional Housing in Israel.” In *Modernism and the Middle East: Architecture and Politics in the*

REFERENCES

- Twentieth Century*, edited by Sandy Isenstadt and Kishawar Rizvi, 139–60. Seattle: University of Washington Press, 2008.
- Koźluk, Magda, Mateusz Potemski, and Dariusz Śmiechowski. *PAQJ Przewodnik architektoniczny dla osiedla domków fińskich na Jazdowie*. Warsaw: SAWAPW, 2019.
- Kraaij, Annemies, “Thamesmead. Greater London Council.” *Dash* 12/3 (2015): 206–21.
- Kramper, Peter. *Neue Heimat. Unternehmenspolitik und Unternehmensentwicklung im gewerkschaftlichen Wohnungs- und Städtebau 1950–1982*. Stuttgart: Franz Steiner Verlag, 2008.
- Kronborg, Anne-Kristine. *OBOS: 100 borettslag 1929–2013*. Oslo: Forlaget Press, 2014.
- Kunstmann, Joanna Waltraud. *Emanuel von Seidl (1856–1919): Die Villen und Landhäuser*. Munich: Scaneg-Verlag, 1993.
- Lange, Ralf. *Architektur und Städtebau der sechziger Jahre. Planen und Bauen in der BRD und der DDR von 1960–1975*, published by the German National Committee for Monument Protection. Bonn: Selbstverlag, 2003.
- Langenberg, Silke. *Bauten der Boomjahre: Architektonische Konzepte und Planungstheorien der 60er und 70er Jahre*, 2nd ed. Dortmund: Wulff, 2011.
- Langenberg, Silke. “Flexibilität, Variabilität, Erweiterbarkeit. Planungsgrundlagen der 1960er und 1970er Jahre.” *Archimaera* 5, no. 4 (2011): 103–16.
- Langenberg, Silke. “Geplante Gestaltung – gebauter Prozess. Architektur der 60er und 70er Jahre.” *Wolkenkuckucksheim. Internationale Zeitschrift für Theorie und Wissenschaft der Architektur* 13, no. 2 (2009). <https://www.cloud-cuckoo.net/journal1996-2013/inhalt/de/heft/ausgaben/108/Langenberg/langenberg.php>
- Langenberg, Silke. “Neuperlach bautechnisch: Serielle Fertigung und Montagebau.” In Hild and Müsseler, 388–93.
- Langenberg, Silke. “Von konventionell bis rationell. Zur Bautechnik der Neuen Heimat.” In *Die Neue Heimat, 1950–1982. Eine sozialdemokratische Utopie und ihre Bauten*, edited by Andres Lepik and Hilde Strobl, 56–65. Munich: Architekturmuseum der TU München, 2019. Exhibition Catalog.
- Langenberg, Silke. “Zur Erhaltung des nicht Haltbaren.” In *Das Digitale und die Denkmalpflege. Bestandserfassung – Denkmalvermittlung – Datenarchivierung – Rekonstruktion verlorener Objekte*, edited by Birgit Franz and Gerhard Vinken, Veröffentlichungen des Arbeitskreises Theorie und Lehre der Denkmalpflege e.V., vol. 26, 48–55. Heidelberg: Arthistoricum.net, 32017. Accessed March 7, 2024. <https://doi.org/10.11588/arthistoricum.263.348>.
- Langenberg, Silke, ed. *Open as a Matter of Principle: The Marburg Building System*. Sulgen: Niggli 2013.
- Langenberg, Silke, ed. *UPGRADE. Making Things Better*. Berlin: Hatje Cantz Verlag, 2022.

REFERENCES

- Langenberg, Silke, and Hans-Rudolf Meier. "Herausforderung Systembau: Denkmaltheorietische Fragestellungen." In ICOMOS Suisse, Arbeitsgruppe System & Serie, *System & Serie*, 135.
- Langenberg, Silke, and Hans-Rudolf Meier. "Systemimmanente Konflikte." In *Reallabor Nachkriegsmoderne*, edited by Olaf Gisbertz, Mark Escherich, Sebastian Hoyer, Andreas Putz, and Christiane Weber, DFG-Netzwerk Bauforschung Jüngere Baubestände 1945+, 19–28. Berlin: Jovis, 2023.
- Large-Block Construction in Leningrad* (Крупноблочное строительство в Ленинграде), edited by Boris Vasiliev, 5–6. Leningrad: Stroyizdat, 1957.
- Larsen, Bjørn. *Åpen systembygging: om teori og praksis [Open system building: on theory and practice]*. Oslo: Arkitektthøgskolen, 1977.
- Larsen, Bjørn. "Vi trenger en systembyggehåndbok." *Byggekunst* 55, no.1 (1973): 13–15.
- Le Corbusier. *The Athens Charter*. New York: Grossman, 1973.
- Le Corbusier. *Journey to the East*. Cambridge, MA: MIT Press, 1987
- Le Corbusier. *Modulor I and II*, 2nd ed. Cambridge, MA: Harvard University Press, 1980.
- Le Corbusier, *Œuvre Complète de 1946–1952*. Zurich: Les Editions d'Architecture, 1953.
- Le Corbusier. *Towards a New Architecture*. Translated by Etchells Frederick. New York: Dover Publications, 1986
- Le Corbusier. *Vers une architecture*. Paris: Éditions Crès, 1923.
- Le Corbusier. *When the Cathedrals Were White*. New York: McGraw-Hill, 1964.
- Leiviskä, Matti. *Parakeista passiivitaloihin: Suomen puutaloteollisuuden historia*. Helsinki: Puutaloteollisuus ry, 2009.
- Levin, Iris. *Migration, Settlement, and the Concepts of House and Home*. New York: Routledge, 2016.
- Levine, Daphna. "Sacred Masses: Religious Architecture in Bat Yam." *Massa – Holy* 2 (2018): 38–49.
- Levy, André, "Center and Diaspora: Jews in Late-Twentieth Century Morocco." *City & Society* 13, no. 2 (2001): 245–70.
- Levy, Matthys, and Mario Salvadori. *Why Buildings Fall Down*. New York: W. W. Norton, 1992.
- Liebich, Lukas. "Botanik. Universität und Kolonialismus: Das Beispiel Göttingen." Accessed February 23, 2024. <https://www.goettingenkolonial.uni-goettingen.de/index.php/disziplinen/botanik>.
- Liebscher, Robert. *Wohnen für alle: Eine Kulturgeschichte des Plattenbaus*. Berlin: Vergangenheitsverlag, 2009.
- Lillbroända-Annala, Sanna. *Från kåk till kulturarv*. Dissertation. Åbo Akademis förlag: Åbo, 2010.

REFERENCES

- Lipp, Wilfried. "Vom modernen zum postmodernen Denkmalkultus? Aspekte zur Reparaturgesellschaft." In *Vom modernen zum postmodernen Denkmalkultus? Denkmalpflege am Ende des 20. Jahrhunderts*, edited by Wilfried Lipp and Michael Petzet, Bayerisches Landesamt für Denkmalpflege, Arbeitsheft 69, 6–12. Munich: Lipp, 1994.
- Lombardo, Ivan Matteo. "Propositi e realtà della X Triennale." In *X Triennale, catalogo della mostra*. Milan: Crespi, 1954.
- London County Council. *The Planning of a New Town. Data and Design Based on a Study for a New Town of 100.000 at Hook. Hampshire*. London: London County Council, 1961.
- Lund, Nils-Ole. "'Skjetten Town Norway' (1973) and 'Looking back at Skjetten' (2010)." *Nordic Journal of Architecture* 2, no.1 (2012): 22–29.
- Maccormac, Richard. "Building Illustrated. Thamesmead: Part One." *Architects' Journal* 156, no. 41 (1972): 817–31.
- Maccormac, Richard. "Building Illustrated. Thamesmead: Part Two." *Architects' Journal* 156, no. 42 (1972): 879–96.
- Machinsky, Vladimir. *New Building Materials (Новые Строительные материалы)*. Moscow: Gosudarstvennoye Izdatel'stvo, 1930.
- Maeda, Tatsuyuki, and Yuka Yoshida. "The Real Reason Why Nakagin Capsule Tower Was Never Metabolized." *Docomomo Journal* 33, no. 65 (July 2021): 118–20. <https://doi.org/10.52200/65.A.VOJ1OE9B>.
- Majerowitz, Merryan, and Yael Allweil. "Housing in the Neoliberal City: Large Urban Developments and the Role of Architecture." *Urban Planning* 4, no. 4 (2019): 43–61.
- Makhoul, Najwa, "Changes in the Employment Structure of Arabs in Israel." *Journal of Palestine Studies* 11, no. 3 (1982): 77–102.
- Malešič, Martina. "Murgle Settlement." In *Unfinished Modernisations. Between Utopia and Pragmatism*, edited by Maroje Mrduljaš and Vladimir Kulić, 336–47. Zagreb: Udruženje hrvatskih arhitekata, 2002.
- Mallgrave, Harry. *Gottfried Semper: Architect of the Nineteenth Century*. New Haven London: Yale University Press 1996.
- Maltherre-Barthes, Charlotte, and b+. "Stop Construction: A Global Moratorium on New Construction." Accessed March 7, 2024. <https://stopconstruction.cargo.site/INFO>.
- Marcuse, Peter. "Housing Policy and the Myth of the Benevolent State." In *The Affordable Housing Reader*, edited by Elizabeth Mueller and J. Rosie Tighe, 36–43. Oxon: Routledge, 2013.
- Martens, Johan-Ditlef. *Norsk boligpolitikk fra sosial profil til fritt marked*. Oslo: AKP, 1982.
- Martens, Johan-Ditlef. *Norwegian Housing*. Oslo: Norsk arkitekturforl, 1993.

REFERENCES

- Mayhew, Henry. *1851, or The Adventures of Mr. and Mrs. Sandboys and Family, Who Came up to London to Enjoy Themselves, and to See the Great Exhibition*. Illustrations by George Cruikshank. London: Georg Newbold, 1851. Accessed February 23, 2024. <https://www.gutenberg.org/cache/epub/65234/pg65234-images.html>.
- McCutcheon, Robert. "The Role of Industrialized Building in Soviet Union Housing Policies." *Habitat International* 13, no. 4 (1989): 43–61.
- McKean, John. *Crystal Palace: Joseph Paxton and Charles Fox*. London: Phaidon 1994.
- Meadows, Donella H., Dennis L. Meadows, Jørgen Randers, and William W. Behrens III. *The Limits to Growth. A Report for the Club of Rome's Project on the Predicament of Mankind*. New York: Universe, 1972.
- Meier, Hans-Rudolf. "Zur Baugeschichte jüngst vergangener Zukünfte." In *Wie forschen? Chancen und Grenzen der Bauforschung an Gebäuden nach 1950*, Bericht der Koldewey-Gesellschaft, no. 50, 23–33. Stuttgart: Thelem, 2021.
- Menting, Annette. *Max Taut: Das Gesamtwerk*. Munich: Deutsche Verlagsanstalt, 2003.
- Meregheggi, Paolo. *Il Mereghetti: Dizionario dei Film 2011*. Milan: Dalai editore, 2010.
- Meuser, Philipp, ed. *Vom seriellen Plattenbau zur komplexen Großsiedlung: Industrieller Wohnungsbau in der DDR 1953–1990*, 2 vols. Berlin: DOM Publisher, 2002.
- Meuser, Philipp, and Dimitrij Zadorin. *Towards a Typology of Soviet Mass Housing – Prefabrication in the USSR 1955–1995*. Berlin: DOM publishers, 2016.
- Meyer-Bohe, Walter. *Vorfertigung: Handbuch des Bauens mit Fertigteilen*. Essen: Vulkan, 1964.
- Miller Lane, Barbara. *National Romanticism and Modern Architecture in Germany and the Scandinavian Countries*. Cambridge: Cambridge University Press, 2000.
- Minosh, Peter. "American Architecture in the Black Atlantic. William Thornton's Design for the United States Capitol." In *Race and Modern Architecture. A Critical History from the Enlightenment to the Present*, edited by Irene Cheng, Charles L. Davis II, and Mabel O. Wilson, 43–58. Pittsburgh, PA: University of Pittsburgh Press, 2020.
- Moelven industrier et al. *Moelven 1899–1999*. Moelv: Moelven industrier, 1999.
- Mönninger, Michael. "Neue Heime als Grundzellen eines gesunden Staates": *Städte- und Wohnungsbau der Nachkriegsmoderne. Die Konzernzeitschrift Neue Heimat Monatshefte 1954–1981*. Berlin: DOM, 2018.
- Moos, Stanislaus von. *Erste Hilfe: Architekturdiskurs nach 1940: Eine Spurensuche*. Zurich: gta-Verlag, 2021.
- Mornati, Stefania. "The Evolution of Construction Technique through the History of Enterprise." In *Construction Pathology, Rehabilitation Technology and Heritage Management, REHABEND 2020, Euro-America Congress*, edited by I. Lombillo, H. Blanco, and Y. Boffill, 10–17. Granada: University of Cantabria – Building Technology R&D Group, 2020.

REFERENCES

- Mornati, Stefania. "New Alpine Architecture in Italy: The Houses of the ENI's Corte di Cadore Village (1958–63)." In *Construction Pathology, Rehabilitation Technology and Heritage Management, REHABEND 2016, EuroAmerica Congress*, edited by L. Villegas, H. Blanco, Y. Boffill, and I. Lombillo, 36–44. Granada: University of Cantabria – Building Technology R&D Group, 2016.
- Moscaritolo, Gabriele Ivo. "Reconstruction as a Long-Term Process: Memory, Experiences and Cultural Heritage in the Irpinia Post-Earthquake (November 23, 1980)." *Geosciences* 10, no. 8 (2020). <https://doi.org/10.3390/geosciences10080316>.
- Mota, Nelson and Yael Allweil. "The Value of Housing." *Footprint* 13, no. 1 (2019): 1–10.
- Mumford, Eric Paul. *The CIAM Discourse on Urbanism, 1928–1960*. Cambridge, MA: MIT Press, 2002.
- Museum Treptow-Köpenick. *Ausstellung "zurückgeschaut | looking back: Die Erste Deutsche Kolonialausstellung von 1896 in Berlin-Treptow"*. Accessed February 23, 2024. <https://www.berlin.de/museum-treptow-koepenick/ausstellungen/artikel.649851.php>.
- Nationalkomitee der Bundesrepublik Deutschland, ed. *Konservierung der Moderne? Über den Umgang mit den Zeugnissen der Architekturgeschichte des 20. Jahrhunderts. ICOMOS – Hefte des Deutschen Nationalkomitees XXIV*. Munich: Lipp, 1998.
- Naumann, Friedrich. "Berliner Gewerbe-Ausstellung 1896." In Friedrich Naumann, *Ausstellungsbriefe Berlin/Paris/Dresden/Düsseldorf 1896–1906*, 16–45. Basel, Boston, and Berlin and Gütersloh and Berlin: Bauverlag, 2007.
- Naumann, Paul. *Möbel und Zimmer der Deutsch-Nationalen Kunstgewerbe-Ausstellung München 1888*. Dresden: Gilbers'sche Königl. Hof-Verlagsbuchhandlung, 1889.
- Nerdinger, Winfried, ed. *Wendepunkte im Bauen: Von der seriellen zur digitalen Architektur*. Munich: Architekturmuseum der TU München, 2010. Exhibition catalog.
- Neufert, Ernst. *Bauordnungslehre*. Berlin: Volk und Reich Verlag, 1943.
- Nikolaev, Ivan. "Construction of the 1st Police House" (Постройка 1-го дома милиции). *Stroitelstvo Moskvy* 1 (1929): 6–9.
- Niloofer, Mohtat, and Akbar Haji Ibrahim Zargar. "Sustainability Evaluation of Post-Disaster Housing Reconstruction after 55 Years: Rudak village, Iran." *International Journal of Disaster Resilience in the Built Environment* 9, no. 4/5 (2018): 294–316.
- Nitzan-Shiftan, Alona. *Seizing Jerusalem: The Architectures of Unilateral Unification*. Minneapolis: University of Minnesota Press, 2017.
- Norberg-Schulz, Christian. "Orden og variasjon i omgivelsene." *Byggekunst* 48, no. 2 (1966): 45–53.
- Oakes, Timothy. "Place and the Paradox of Modernity." *Annals of the Association of American Geographers* 87, no. 3 (1997): 509–31.

REFERENCES

- Official Catalogue of the Great Exhibition of the Works of Industry of All Nations*, by Authority of the Royal Commission, fourth corrected and improved edition. London: Spicer Brothers, 1851. <https://www.e-rara.ch/zut/doi/10.3931/e-rara-79118>.
- Offizieller Katalog der Deutschen Bau-Ausstellung Dresden, 1900*, July 1900. Dresden-Blasewitz: Verlag von Alwin Arnold, 1900.
- Opočinskaja, Anna. “Per una storia dell’Accademia di architettura pansovietica.” In *U.R.S.S. anni ’30–’50: Paesaggi dell’utopia staliniana*, edited by Alessandro De Magistris, 63–78. Milan: Edizioni Gabriele Mazzotta, 1997.
- Osayimwese, Itohan. *Colonialism and Modern Architecture in Germany*. Pittsburgh: University of Pittsburgh Press, 2017.
- Osayimwese, Itohan. “Hermann Frobenius and the History of African Architecture in Translation.” Filmed September 2021 at Schelling Architecture Foundation 2020 Award Ceremony, Karlsruhe. Video, 1:10:04. <https://www.youtube.com/watch?v=9IqsAjr46GM>.
- Parnas, David Lorge. *Software Aging, Proceedings, 16th International Conference on Software Engineering, May 16–21, 1994, Sorrento, Italy*. Los Alamitos, CA, IEEE Computer Society Press, 1994. Accessed March 7, 2024. <https://archive.org/details/proceedings16thi0000inte>.
- Parnell, Stephen. “The Meanings of Concrete: Introduction.” *Journal of Architecture* 20, no. 3 (2015): 371–375. DOI: 10.1080/13602365.2015.1046218.
- Pawley, Martin. “Ignorance of Broadband Approach Is Reason for Prefabrication Failure.” *Architects’ Journal* 216, no. 21 (2002): 18.
- Pawley, Martin. “The Rise and Fall of the Public Sector.” *Architects’ Journal* 184, no. 34 (1986): 24–25.
- Pecovski, D., and G. Angjušev. “Fabrika montažnih stanova u Skopju.” *Arhitektura urbanizam* 6, no. 35/36 (1965): 33–35.
- Perlstein, Yitzhak, and Associates Architects and Town Planners. “Planning, Housing and Buildings.” *Source* (1966): 73. (Hebrew)
- Persyn, Freek. “Inaugural Lecture at ETH Zurich.” October 20, 2021.
- Petrescu, Doina, and Kim Trogal, eds. *The Social (Re)Production of Architecture: Politics, Values and Actions in Contemporary Practice*. London: Routledge, Taylor & Francis, 2017.
- Petrignani M. *Pianificazione ed industrializzazione edilizia nell’URSS*. Salerno: Antonio Salzano Editore, 1978.
- Petzet, Michael, and Uta Hassler, eds. *Das Denkmal als Altlast? Auf dem Weg in die Reparaturgesellschaft. ICOMOS – Hefte des Deutschen Nationalkomitees XXI*, edited by Nationalkomitee der Bundesrepublik Deutschland. Munich: Lipp, 1998.
- Picht, Georg. *Die Deutsche Bildungskatastrophe*. Freiburg: Walter, 1964.
- Pike, Alexander. “Thamesmead Report.” *Architectural Design* 11 (1969): 608.

REFERENCES

- Pota, Ljube. "Konceptije i izrada urbanističkog plana novog Skoplja." *Komuna* 12, no. 6 (1965): 18–20.
- Pota, Ljube. "Skopje. Rekonstrukcija centralnog dijela." *Čovjek i prostor* 5, no. 74 (1958): 3 and 8.
- Pregled osnova stanova za 1948*. Beograd: Ministarstvo građevina FNRJ, 1948.
- Pushaw, Bart. "Our Country Has Never Been as Popular as It Is Now! Finland at the 1900 Exposition Universelle." In *Expanding Nationalisms at World's Fairs: Identity, Diversity, and Exchange, 1851–1915*, edited by David Raizman and Ethan Robey, 130–46. Oxon: Routledge 2018.
- Rainer, Ronald. *Ebenerdige Wohnhäuser*. Vienne: Berglandverlag, 1948.
- Rajić, Rajko. "Građevinska industrija i građevinarstvo pred novim zadacima u stanbenoj izgradnji." *Komuna* 7, no. 1 (1960): 11–13.
- Rampf, Markus, Olga Speck, Thomas Speck, and Rolf H. Luchsinger. "Self-Repairing Membranes for Inflatable Structures Inspired by a Rapid Wound Sealing Process of Climbing Plants." *Journal of Bionic Engineering* 8 (2011): 242–50.
- Rasch, Heinz, and Bodo Rasch. *Wie bauen? Bau und Einrichtung der Werkbundsiedlung am Weissenhof in Stuttgart*. Stuttgart: Akademischer Verlag Fr. Wedekind, [1927].
- Raz-Krakotzkin, Amnon. "Exile within the Nation-State." *Theory and Criticism* 4 (1993): 23–55. (Hebrew)
- Redakcija. "Graditeljstvo u petogodišnjem planu." *Arhitektura* 1, no. 1–2 (1945): 4–5.
- Rehm, Robin, and Silke Langenberg. "Das Patent als Akteur technischer Innovationen. Hochschularchitektur der 1960er und 1970er Jahre." *Kunst + Architektur in der Schweiz* 72, no. 4 (2021): 12–21.
- Reid, Susan E. "Makeshift Modernity: DIY, Craft and the Virtuous Homemaker in New Soviet Housing of the 1960s." *International Journal for History, Culture and Modernity* 2, no. 2 (2014): 87–124.
- Reiersen, Elsa, and Elisabeth Thue. *De tusen hjem: Den norske stats husbank 1946–96*. Oslo: Ad notam Gyldendal, 1996.
- Remennick, Larissa. "The Two Waves of Russian-Jewish Migration from the USSR/FSU to Israel: Dissidents of the 1970s and Pragmatics of the 1990s." *Diaspora: A Journal of Transnational Studies* 18, no. 1/2 (2015): 44–66.
- Riedel, Alexandra, Katja Heine, and Frank Henze, eds. *Von Handaufmass bis High Tech II. Informationssysteme in der historischen Bauforschung*. Darmstadt: Philipp von Zabern, 2007.
- Riis, Per Otto. *OBOS og boligmarkedet: En analyse av transaksjoner med andeler i borettslag tilknyttet Oslo Bolig- og Sparelag*. Oslo: Universitetet i Oslo, 1975.
- Rinne, Hannu. *Rintamamiestalo: kunnostus ja ylläpito*. Helsinki: WSOY, 2013.
- Roberts, Henry. *Das Musterhaus für Arbeiter-Familien. Auf Befehl seiner Hoheit des Prinzen Albert im Jahre 1851 auf der Grossen Ausstellung in London erbaut von Henry Roberts*.

REFERENCES

- Translated by C. F. Busse. In *Ausgeführte Familien-Häuser für die arbeitenden Klassen*. Potsdam: Verlag von Ferdinand Riegel, 1852.
- Robotić, Vladimir. "Montažne stambene zgrade – 'Spačva.'" *Čovjek i prostor* 12, no. 143 (1965): 7–8.
- Ronström, Owe. *Kulturarvspolitik: Visby från sliten småstad till medeltidsikon*. Stockholm: Carlssons, 2008.
- Roselli, Alberto. "XII Triennale, invito alla discussione." *Stile e Industria* 28 (1960): 74.
- Rotbard, Sharon. *Avraham Yaski: Concrete Architecture*. Tel Aviv: Babel, 2007. (Hebrew)
- Rozin, Orit. *The Rise of the Individual in 1950s Israel: A Challenge to Collectivism*. Waltham, MA: Brandeis University Press, 2011.
- Rubin, Robert. "Preserving and Presenting Prefab: Jean Prouvé's Tropical House." *Future Anterior: Journal of Historic Preservation, History, Theory, and Criticism* 2, no. 1 (2005): 30–39.
- Rykwert, Joseph. "Inghilterra: Un nuovo centro per sessantamila abitanti." *Domus* 442 (1966): 3–10.
- Saarikangas, Kirsi. *Asunnon muodonmuutoksia: Puhtauden estetiikka ja sukupuoli modernissa arkkitehtuurissa*. Helsinki: Suomen Kirjallisuuden Seura, 2002.
- Saarikangas, Kirsi. *Model Houses for Model Families: Gender, Ideology and the Modern Dwelling: The Type Planned Houses of the 1940s in Finland*. Studia Historica 45. Helsinki: Helsingin yliopisto, 1993.
- Saarikangas, Kirsi. "Wood, Forest and Nature: Architecture and the Construction of Finnishness." In *Europe's Northern Frontier: Perspectives on Finland's Western Identity*, edited by Tuomas M. S. Lehtonen, 166–207. Helsinki: PS-Kustannus, 1999.
- Sæterdal, Anne Jens Bjørneboe, and Asbjørn Nedrebø. *Grunnlag for planlegging av boliger*. Oslo: NBI, 1972.
- Santini, Pier Carlo. *Catalogo della XII Triennale di Milano*. Milano: Crespi, 1960.
- Schek, Noa. *Heritage Sites Survey of Kibbutz Givat Oz*. December 2020.
- Schilling, Rudolf. "Fertighaus 63." *Schweizerische Bauzeitung* 81, no. 36 (1963): 638–39.
- Schmidt, Hartwig. "Häuser aus Beton. Der Beginn einer neuen Bauweise." In *Häuser aus Beton. Vom Stampfbeton zum Grosstafelbau*, edited by Uta Hassler and Hartwig Schmidt, 12–23. Tübingen: Wasmuth, 2004.
- Schmidt, Hartwig, Winfried Brenne, and Ulrich Borgert. "Die Baustelle als Experimentierfeld. Industrieller Wohnungsbau in Berlin 1924–1931." In *Häuser aus Beton: Vom Stampfbeton zum Grosstafelbau*, edited by Uta Hassler and Hartwig Schmidt, 60–76. Tübingen: Wasmuth, 2004.
- Schmidt, Leo. "Die Kultobjekte." *Umbau: Über die Zukunft des Baubestands*, edited by Uta Hassler, Niklaus Kohler, and Wilfried Wang, 190–96. Tübingen: Wasmuth & Zohlen, 1999.
- Schmitt, Oskar M. *Einführung in die Schaltechnik des Betonbaues*. Düsseldorf: Werner, 1981.

REFERENCES

- Schwarting, Andreas. *Die Siedlung Dessau-Törten: Rationalität als ästhetisches Programm*. Dresden: Thelem 2010.
- Schwartz, Frederic J. *The Werkbund: Design Theory and Mass Culture before the First World War*. New Haven, CT: Yale University Press, 1996.
- Schwarz, Ullrich, ed. *Neue Heimat. Das Gesicht der Bundesrepublik: Bauten und Projekte 1947–1985*. Schriftenreihe des Hamburgischen Architekturarchivs 38. Munich: Dölling und Galitz, 2019.
- Segal, Rafael. “Unit, Pattern, Site: The Space Packed Architecture of Alfred Neumann, 1949–1968.” PhD diss., Princeton University, 2011.
- Selberg, Knut, and Vegard Hagerup. *Husbanken former Norge: Den norske stats husbank: innflytelse på arkitektur og tettstedsutvikling 1946–1980*. Trondheim: Norges tekniske høgskole. Institutt for by- og regionplanlegging, 1981.
- Selkurt, Clarie. “Design for a Democracy: Scandinavian Design in Postwar America.” In *Scandinavian Design beyond the Myth: Fifty Years of Design from the Nordic Countries*, edited by Widar Halén and Kerstin Wickman, 58–65. Stockholm: Arvinius/Form Förlag, 2003.
- Semper, Gottfried. “Urelemente der Architektur und Polychromie: Ueber architektonische Symbole.” In *Gottfried Semper: Gesammelte Schriften*, edited by Manfred and Hans Semper. Berlin/Stuttgart: Verlag von W. Spemann, 1884. In: *Kleine Schriften*, vol. 4 of the Reprint edited by Hendrik Karge, 292–303. Hildesheim, Zurich, and New York: Olms-Weidmann, 2008.
- Shabtai-Cyzer, Naama. “‘Kiron’ Housing Complex, Kiryat Ono: Contemporary Challenges in its Conservation.” MA thesis, Technion Israel Institute of Technology, 2011. (Hebrew)
- Shadar, Hadas. *The Building Blocks of Public Housing in Israel*. 2nd ed. Holon: Israel Ministry of Housing, 2018. (Hebrew)
- Shadar, Hadas, ed. *Sunstroke: Brutalist Construction in Be’er Sheva: Re-Examination of National Architecture*. Jerusalem: Yad Ben-Zvi, 2016. (Hebrew)
- Sharon, Arie. *Tichnun Fisi be’Israel* (Physical Planning in Israel). Tel Aviv: n.p., 1951. (Hebrew)
- Shears, Jonathan, ed. *The Great Exhibition. A Sourcebook*. Manchester: Manchester University Press, 2017.
- Sheil, Bob, and Ruairi Glynn, eds. *Fabricate: Making Digital Architecture*. London 2011. Accessed March 19, 2024. <https://www.jstor.org/stable/j.ctt1tp3c6d>.
- Shinde, Kiran A. “Disruption, Resilience, and Vernacular Heritage in an Indian City: Pune after the 1961 Floods.” *Urban Studies* 54, no. 2 (2017): 382–98.
- Shoshana, Avi. “Space, Heterogeneity, and Everyday Life: Ultra-Orthodox Heterotopia in Israel.” *Journal of Contemporary Ethnography* 43, no. 5 (2014): 527–55.
- Simonetti, Matteo Cassani. “Building and Re-Building a Nation’s Identity: Israeli and Italian Architectural Culture, Their Representation and the Role of Bruno Zevi

REFERENCES

- (1918–2000).” In Ben-Asher Gitler and Geva, *Israel as a Modern Architectural Experimental Lab*, 305–32.
- Skeie, Jon. *Bolig for folk flest: Selvaagbygg 1920–1998*. Oslo: Tano Aschehoug, 1998.
- Skjerven, Astrid. “Great Expectations – The Foundation of a Design Concept.” In Halén and Wickmann, *Scandinavian Design Beyond the Myth*, 26–31.
- Sleiffer, Joseph. “Urban Settlement 1948–1968 – Thoughts of an Active Participant.” In Tovia and Boneh, *Binyan Ha’Aretz*, 92–95.
- Smithson, Alison. “How to Recognize and Read MAT-BUILDING: Mainstream Architecture as It Developed towards the Mat-building.” *Architectural Design* 9 (1974): 573–90.
- Sokolov, Konstantin. “Moscow Experience in Designing Large-Block Construction” (Московский опыт проектирования крупноблочного строительства). *Stroitel’stvo Moskvy* 3/4 (1939): 18–21.
- Solopova, Natalya. *La préfabrication en URSS: Concepts techniques et dispositifs architecturaux*. Berlin: DOM, 2020.
- Stamenković, Branislav. “Proizvodnja i plasman montažnih drvenih kuća.” *Komuna* 11, no. 12 (1964): 28–29.
- Stanek, Lukasz. *Architecture in Global Socialism: Eastern Europe, West Africa, and the Middle East in the Cold War*. Princeton, NJ: Princeton University Press, 2020.
- Stockhammer, Daniel, ed. *Upcycling: Reuse and Repurposing as a Design Principle in Architecture*. 2nd ed. Zurich: Triest-Verlag, 2021.
- Strobl, Hilde. “Hohe Häuser, lange Schatten: Die Bauten des Gewerkschaftsunternehmens Neue Heimat.” In Lepik and Strobl, *Neue Heimat*, 8–19.
- Suau, Cristian. 2011. “Visionary Prefab in the Modern Age: Deconstructing Keaton’s Films.” *Docomomo Journal* 23, no. 44 (August 2011): 81–85. <https://doi.org/10.52200/44.A.P2HWOVDV>.
- Swenarton, Mark, Tom Avermaete, and Dirk van den Heuvel, eds. *Architecture and the Welfare State*. London: Routledge, 2015.
- Tæt lav–en boligform. Eksempelsamling*, SBI-rapport 75. København: Statens byggeforskningsinstitut, 1971.
- Tolić, Ines. “Ernest Weissmann’s ‘World City’: The Reconstruction of Skopje within the Cold War Context.” *Southeastern Europe* 41, no. 2 (2017): 171–99.
- Tovia, Miriam, and Michael Boneh, eds. *Binyan Ha’Aretz. Public Housing in the 1950s*. Tel Aviv: Hakibbutz Hameuchad, 1999. (Hebrew)
- Tovia, Miriam, and Michael Boneh. “Housing in the 1950s.” In Tovia and Boneh, *Binyan Ha’Aretz*, 11–15.
- Trezib, Joachim. “Humble Homes and Copper Castles: Early German Prefabs on Their Way to Palestine.” *Zmanim – A Historical Quarterly* 96 (2006): 68–75. (Hebrew)

REFERENCES

- United Nations Development Programme. *Skopje Resurgent: The Story of a United Nations Special Fund Town Planning Project*. New York: United Nations, 1970.
- Urban, Florian. "Prefab Russia." *Docomomo Journal* 20, no. 39 (September 2008): 18–22.
- Urban, Florian. *Tower and Slab: Histories of Global Mass Housing*. New York: Routledge, 2012.
- Vale, Brenda. *Prefabs: A History of the UK Temporary Housing Programme*. London: E&FN SPON, 1995.
- Vale, Lawrence J. *Architecture, Power and National Identity*. 2nd ed. London: Routledge, 2008.
- Vereinigung der Landesdenkmalpfleger. "Zukunftsfragen – Perspektiven für die Denkmalpflege." *Jahrestagung der Vereinigung der Landesdenkmalpfleger, Münster, Germany*, May 15–18, 2022. Accessed March 19, 2024. https://www.vdl-denkmalpflege.de/fileadmin/dateien/Jahrestagung/Einladung_VDL-Jahrestagung-2022.pdf.
- Vasilkovsky, Sergey. "Architecture of Large-Block Structures" (Архитектура крупноблочных сооружений). *Arhitektura Leningrada* 2 (1939): 33–39.
- Vekić, Živojin. "Osvrst na razvoj i dostignuća proizvodnje lakih montažnih objekata u SR BiH." *Arhitektura-urbanizam* 6, no. 35/36 (1965).
- Verk, Miloš, Alenka Bajec, and Marko Deu. "Prvo stambeno naselje montažnih zgrada u Ljubljani." *Komuna* 12, no. 3 (1965): 30–31.
- Vytke, Oleg. "The Main Ways of Standard Housing Construction in 1932" (Основные пути стандартного жилищного строительства в 1932 году). *Stroitelstvo Moskvy* 9 (1931): 15–19.
- Wachsmann, Konrad. *Wendepunkt im Bauen*. Reprint. Stuttgart: DVA, 1989.
- Wagner, Kirsten. "Von den Akteuren des Wohnungsbaus zu den Akteuren des Wohnens. Philosophische und soziologische Bestimmungen des Wohnens in den 1950er- und 1960er-Jahren." In *Architektur und Akteure: Praxis und Öffentlichkeit in der Nachkriegsgesellschaft*, edited by Regine Heß, 45–62. Bielefeld: Transcript 2018.
- Wall, Christine. *An Architecture of Parts: Architects, Building Workers and Industrialization in Britain 1940–1970*. London: Routledge, Taylor & Francis, 2013.
- Weferling Ulrich, Katja Heine, and Ulrike Wulf, eds. *Von Handaufmass bis High Tech I: Messen, modellieren, darstellen*. Darmstadt: Philipp von Zabern, 2003.
- Wenzler, Fedor. "Neće ostati grad – ruševina." *Čovjek i prostor* 10, no. 126 (1963): 1 and 6.
- Werkbund-Ausstellung Die Wohnung*: Stuttgart 1927, 23. Juli–9. Okt. Amtlicher Katalog, edited by the Exhibition Directorate. Reprint edited by Stuttgarter Gesellschaft für Kunst und Denkmalpflege. Bönningheim: Wachter GmbH Medientechnologien, 1998.
- Wigfall, Valerie G. *Thamesmead. A Social History*. Stroud: History Press, 2008.

REFERENCES

- Williams, Finn. “Designing Upstream: Rebuilding Agency Through New Forms of Public Practice,” *Architectural Design* 88, no. 5 (2018): 109.
- Woods, William K. “An Urbanologist’s Notebook.” *North American Review* 255, no. 1 (1970): 27–33.
- Wyss, Beat. “Anthropologie als Herrschaftswissen.” In Beat Wyss, *Bilder von der Globalisierung: Die Weltausstellung von Paris 1889*, 138–69. Berlin: Insel Verlag, 2010.
- Yablonsky, Dmitriy, Vasiliy Lelichenko, and Tsvik Vladislav. “Design of Large-Block Residential Buildings in the Ukrainian SSR” (Проектирование крупноблочных жилых домов в Украинской ССР). In *Design and Construction of Buildings from Large Blocks and Panels* (Проектирование и строительство зданий из крупных блоков и панелей), edited by Il’ya Rokhlin, 14–41. Kiev: Izdatel’stvo Ukrainskoy Akademii Arkhitektury, 1955.
- Yacobi, Haim, ed. *Constructing a Sense of Place: Architecture and the Zionist Discourse*. Aldershot, UK: Ashgate, 2004.
- Zairul, Mohd. “The Recent Trends on Prefabricated Buildings with Circular Economy (CE) Approach.” *Cleaner Engineering and Technology* 4 (2021): 100239. <https://doi.org/10.1016/j.clet.2021.100239>.
- Zelljadt, Katja. “Presenting and Consuming the Past: Old Berlin at the Industrial Exhibition of 1896.” *Journal of Urban History* 31, no. 3 (2005): 306–33.
- Zevi, Bruno. “La XII Triennale di Milano 12 punti fermi.” *L’Architettura cronache e storia* 59 (1960): 290–91.
- Zrnc, V. “Smještaj turističkih masa.” *Čovjek i prostor* 4, no. 64 (1957): 1 and 3.

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