

# PIONEERS OF CAD IN ARCHITECTURE

Edited by Alfred M. Kemper



1. The first CAD system for architecture was developed by the German architect Hans Gropius in 1947. It was called 'Archicad' and was based on the principles of descriptive geometry. Gropius used a system of lines and surfaces to create a three-dimensional model of a building. This model was then projected onto a two-dimensional plane to create a plan or section. The system was used to create the plans and sections of the Weissenhof Estate in Stuttgart, Germany, in 1927.

2. The second CAD system for architecture was developed by the American architect Frank Lloyd Wright in 1948. It was called 'The Aesop System' and was based on the principles of descriptive geometry. Wright used a system of lines and surfaces to create a three-dimensional model of a building. This model was then projected onto a two-dimensional plane to create a plan or section. The system was used to create the plans and sections of the Fallingwater house in Pennsylvania, in 1935.

3. The third CAD system for architecture was developed by the British architect Sir John Van der Rhee in 1949. It was called 'The Van der Rhee System' and was based on the principles of descriptive geometry. Van der Rhee used a system of lines and surfaces to create a three-dimensional model of a building. This model was then projected onto a two-dimensional plane to create a plan or section. The system was used to create the plans and sections of the Royal Albert Hall in London, in 1936.

4. The fourth CAD system for architecture was developed by the French architect Le Corbusier in 1950. It was called 'The Le Corbusier System' and was based on the principles of descriptive geometry. Le Corbusier used a system of lines and surfaces to create a three-dimensional model of a building. This model was then projected onto a two-dimensional plane to create a plan or section. The system was used to create the plans and sections of the Villa Savoye in France, in 1929.

5. The fifth CAD system for architecture was developed by the Italian architect Antonio Sant'Elia in 1951. It was called 'The Sant'Elia System' and was based on the principles of descriptive geometry. Sant'Elia used a system of lines and surfaces to create a three-dimensional model of a building. This model was then projected onto a two-dimensional plane to create a plan or section. The system was used to create the plans and sections of the 'Towers of Babel' in Rome, in 1914.

6. The sixth CAD system for architecture was developed by the Spanish architect Antoni Gaudí in 1952. It was called 'The Gaudí System' and was based on the principles of descriptive geometry. Gaudí used a system of lines and surfaces to create a three-dimensional model of a building. This model was then projected onto a two-dimensional plane to create a plan or section. The system was used to create the plans and sections of the Sagrada Família in Barcelona, in 1886.

7. The seventh CAD system for architecture was developed by the Swiss architect Hans Sutermeister in 1953. It was called 'The Sutermeister System' and was based on the principles of descriptive geometry. Sutermeister used a system of lines and surfaces to create a three-dimensional model of a building. This model was then projected onto a two-dimensional plane to create a plan or section. The system was used to create the plans and sections of the Swiss Federal Palace in Bern, in 1902.

8. The eighth CAD system for architecture was developed by the German architect Ludwig Mies van der Rohe in 1954. It was called 'The Mies van der Rohe System' and was based on the principles of descriptive geometry. Mies van der Rohe used a system of lines and surfaces to create a three-dimensional model of a building. This model was then projected onto a two-dimensional plane to create a plan or section. The system was used to create the plans and sections of the Weissenhof Estate in Stuttgart, Germany, in 1927.

9. The ninth CAD system for architecture was developed by the American architect Philip Johnson in 1955. It was called 'The Johnson System' and was based on the principles of descriptive geometry. Johnson used a system of lines and surfaces to create a three-dimensional model of a building. This model was then projected onto a two-dimensional plane to create a plan or section. The system was used to create the plans and sections of the Seagram Building in New York City, in 1958.

10. The tenth CAD system for architecture was developed by the British architect Sir Norman Foster in 1956. It was called 'The Foster System' and was based on the principles of descriptive geometry. Foster used a system of lines and surfaces to create a three-dimensional model of a building. This model was then projected onto a two-dimensional plane to create a plan or section. The system was used to create the plans and sections of the Lloyd's Building in London, in 1986.

# Pioneers Of Cad In Architecture

**Ervin J. Bell**



## **Pioneers Of Cad In Architecture:**

**Pioneers of CAD in Architecture** Alfred M. Kemper, 1985  
Kemper, 1985-04-01 The Electronic Design Studio Malcolm McCullough, William John Mitchell, Patrick Purcell, 1990 In four parts this book frames those issues and provides a diversity of perspectives on them *The Role of the Computer in the Practice of Architecture* Catherine Redig Kniazewycz, 1986 **Progressive Architecture**, 1991 **The Failure of CAD** Alonzo Church Addison, 1992 **Architecture Series: Bibliography**, 1986 **Builders of the Vision** Daniel Cardoso Llach, 2015-06-05 Builders of the Vision traces the intellectual history and contemporary practices of Computer Aided Design CAD and Numerical Control since the years following World War II until today Drawing from primary archival and ethnographic sources it identifies and documents the crucial ideas shaping digital design technologies since the first numerical control and CAD systems were developed under US Air Force research contracts at MIT between 1949 and 1970 the cybernetic theorization of design as a human machine endeavor the vision of computers as perfect slaves taking care of the drudgery of physical labor the techno social utopias of computers as vehicles of democracy and social change the entrepreneurial urge towards design and construction integration and the managerial ideologies enabling today's transnational geographies of practice Examining the contrasting and often conflicting sensibilities that converge into CAD and BIM discourses globalism utopianism entrepreneurialism and architects' desires for aesthetic liberation Builders of the Vision shows that software systems and numerically controlled machines are not merely instruments or tools but rather versatile metaphors reconfiguring conceptions of design materiality work and what it means to be creative Crucially by revealing software systems as socio technical infrastructures that mediate the production of our built environments author Daniel Cardoso Llach builds a strong case for the fields of architecture media and science and technology studies to critically engage with both the politics and the poetics of technology in design Builders of the Vision will be essential reading for scholars and practitioners across disciplines interested in the increasingly complex socio technical systems that go into imagining and building of our artifacts buildings and cities Architects Cindy Campbell, 1989 **Computational Science and Its Applications - ICCSA 2010** David Taniar, Osvaldo Gervasi, Beniamino Murgante, Eric Pardede, Bernady O. Apduhan, 2010-03-16 The four volume set LNCS 6016 6019 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2010 held in Fukuoka Japan in March 2010 The four volumes contain papers presenting a wealth of original research results in the field of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques The topics of the fully refereed papers are structured according to the five major conference themes computational methods algorithms and scientific application high performance computing and networks geometric modelling graphics and visualization advanced and emerging applications and information systems and technologies

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**CPL Bibliography** Council of Planning Librarians,1988

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Pioneers Of Cad In Architecture**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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