

MH4009

FACILITIES PROGRAMMING AND MANAGEMENT FOR ARCHITECTURE

UNIT I

BASICS OF ARCHITECTURAL PROGRAMMING

Introduction to Architectural Programming.

Architectural Programming

by Edith Cherry, FARA, ASLA and John Petronis, AIA, AICP

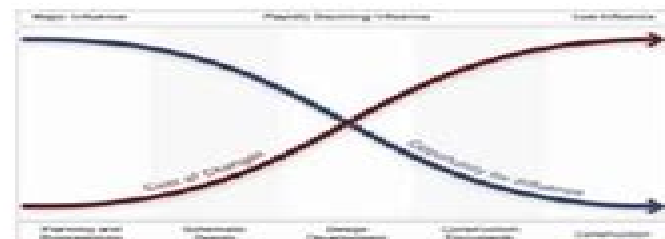
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Architectural programming began when architecture began. Today, we define architectural programming as the research and decision-making process that identifies the scope of work to be designed. Synonyms include "facility programming," "functional and operational requirements," and "scoping."

In the early 1960s, the text that guided many architects and clients who sought to identify the scope of a design problem prior to beginning the design, which is intended to solve the problem.

In the 1980s and 1990s, some architectural schools began to drop architectural programming from their curricula. The emphasis of the Post-Modern and Deconstruction agendas was instead on form-making. Programming and its attention to the users of buildings was not a priority. Now, several generations of architects have little familiarity with architectural programming and the advantages it offers:

- Involvement of interested parties in the definition of the scope of work prior to the design effort
- Emphasis on gathering and analyzing data early in the process so that the design is based upon sound decisions
- Efficiencies gained by avoiding redesign and more redesign as requirements emerge during architectural design.



Introduction To Architectural Programming

Robert Hershberger



Introduction To Architectural Programming:

Introduction to Architectural Programming Edward T. White, 1975 **Introduction to Architectural Programming (Classic Reprint)** Edward T. White, 2017-10-29 Excerpt from Introduction to Architectural Programming Although its form and role may vary from project to project and from design method to design method programming is nevertheless an integral part of the planning of any building With the architect involved in projects of greater and greater complexity the value of the program has grown from a means of getting to know the problem to that of an instrument which limits and directs the planning process Whereas in the past programming amounted to little more than a superficial involvement with familiar and uncomplicated functions which had little or no direct influence on the operations of design synthesis it is developing into a systematic analytical discipline with ever increasing interface with planning operations The increasing number of firms which specialize in this area is evidence of the new importance placed on programming and its recognition as a distinct component of the design process About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works Methods of Architectural Programming (Routledge Revivals) Henry Sanoff, 2016-05-20 First published in 1977 this volume was intended as a sourcebook for designers and attempts to specify the ingredients necessary to develop a design program rather than postulate a model program for which no consensus exists As such it filled a void in the existing literature which seldom covered programming with much depth and provides technical aids to guide designers The author attempts to integrate the pioneering contributions from others in order to identify the substance of programming for designers and represents a culling of the strategies and techniques from the social behavioural and management sciences building on the developing efforts of other disciplines Architectural Programming and Predesign Manager Robert Hershberger, 2015-09-25 In this book first published in 1999 Hershberger presents architectural programming and predesign management in a clear detailed manner With numerous examples and illustrations from both his and his colleagues experience he shows the reader step by step how to use the techniques of architectural programming set values resolve issues apply tested methods and leverage skills when working with clients This title will be of interest to students of architecture **Programming for Design** Edith Cherry, 1998-11-10 Quickly master architectural programming concepts skills and techniques In the essential discipline of architectural programming the ideas of philosophy sociology anthropology psychology and history find their focus in the realities of site conditions budgets and functionality Author Edith Cherry vividly demonstrates in this inspiring tutorial that

the programming process not only helps architects avoid the endless design revisions occurring in most projects but that it is also the key to designing for optimal form and function Programming for Design lets you rapidly acquire the knowledge and skills needed to successfully program a moderate size space Rather than simply describe basic principles and practices this straightforward guide helps you master architectural programming by actually doing it Professor Cherry identifies the central issues involved and describes the skills needed to work with clients to identify problems to be solved by a design effort Emphasizing designing for people she offers proven strategies and techniques for goal setting information gathering and analysis concept development program synthesis and communicating with clients The book is also devoted to practical applications The author walks you step by step through a project of your own choosing providing numerous examples and four case studies within each step that vividly illustrate how to effectively gather process and communicate information Programming for Design features more than 200 supporting illustrations diagrams and sidebars appearing throughout the text reproducing pithy sayings by such far flung figures as Plato and Yogi Berra Einstein and Lao Tzu that help relate the programming process to other disciplines

Design by Competition Jack L. Nasar, 1999-02-28 What meanings do buildings and places convey to the people who use and visit them Too often design competitions and signature architecture result in costly eyesores that do not work How can sponsors and clients get more meaningful results In answer to these questions Dr Nasar supported by riveting studies of competitions and Peter Eisenman's competition winning design for the Wexner Center at the Ohio State University suggests the use of pre jury evaluation PJE He shows the potential value of this approach as well as visual quality programming for many kinds of environmental design for which the client wants to convey certain desirable meanings The studies from those specific to the Wexner Center to those covering the scope of history point to an alternative method for shaping the visual form of buildings places and cities

Programming Interior Environments Cynthia Karpan, 2019-11-21 Programming Interior Environments introduces a four component framework you can use to program interiors and twelve methods for you to gather analyze and synthesize programmatic information to take the guesswork out of your studio projects This book studies the Student Programming Model a realistic programming process for college and university interior design students that allows students to create accurate and in depth programming documents essential for informing the design process This is done whilst keeping in mind that students are often working solo with imaginary clients and end users in mind and collecting program information within strict time constraints Including three appendices of student programs created following these guidelines to help you understand how to apply the framework components and inquiry methods in your own work this book is ideal for students and professionals in interior design and interior architecture

Facility Programming (Routledge Revivals) Wolfgang F. E. Preiser, 2016-05-20 First published in 1978 the objective of this book is to provide an authoritative and selective overview of current user orientated programming methods within the field of environmental design The 19 chapters compiled in this volume describe procedures and the

information content of innovative approaches used by leading programming experts in the private and institutional sectors. Emphasis is placed on a qualitative and illustrative focus of selected approaches to environmental programming with the eventual occupants in mind. The chapter groupings are intended to reflect three major areas of professional engagement that serve the field of facility programming. The first group describes the approaches of firms or groups that were organised exclusively to provide environmental analysis and programming services. Part II is composed of chapters by authors who belong to established architectural firms with programming departments and Part III presents evidence that pertains to the supporting role of research and guidance literature from authors primarily affiliated with government agencies or supported by large organisations. Programming the Built Environment (Routledge Revivals) Wolfgang F. E. Preiser, 2015-07-24

Architectural programming, the analysis of any given environment to satisfy users' needs, has become a given prerequisite to the design process. The programming process is often a complicated one: users' present and future needs must be identified; space allowances often predetermined; must be considered; equipment must be accommodated all in the most cost-effective way possible. The variety of user groups is as wide as the variety of functions; architecture can shelter; moreover, the different structures and needs of clients that fall within the same use classification differs so greatly that every program presents a new challenge. You cannot, for example, use the same program for every hospital you design. In *Programming the Built Environment*, first published in 1985, noted architect Wolfgang F. E. Preiser has compiled a wide range of architectural programs demonstrating applications of basic principles for different client groups. This book will be of interest to students of architecture and planning. *The Architect's Guide to Facility Programming* American Institute of Architects, Mickey A. Palmer, 1981

Architecture in Use D. J. M. van der Voordt, Herman B. R. Wegen, 2005. This unique book discusses programming design and building evaluation providing a joined-up approach to building design. By linking the functional and architectonic qualities of a building, the authors show the practical implications of the utility value of buildings. Starting by looking at how the relationship between form and function has been dealt with by different approaches to architecture from a historical perspective, it goes on to discuss how the desired functional quality and utility value of a building can be expressed in a brief and given a physical form by the architect. Finally, it advises on how to carry out post-occupancy evaluation and provides the architect with methods and techniques for testing whether the intended utility value of a building has been achieved.

Advances in Environment, Behavior and Design Erwin H. Zube, Gary T. Moore, 2013-11-11. This second volume in the *Advances in Environment Behavior and Design* series follows the pattern of Volume 1. It is organized into six sections: user group research; consisting of advances in theory; place research; sociobehavioral research; research and design methods; and research utilization. The authors of the chapters in this volume represent a range of disciplines including architecture, geography, psychology, social ecology, and urban planning. They also offer international perspectives: Tommy Garling from Sweden; Graeme Hardie from South Africa; recently relocated to North Carolina; Gerhard Kaminski from the

Federal Republic of Germany and Roderick Lawrence from Switzerland formerly from Australia Although most chapters address topics or issues that are likely to be familiar to readers environmental perception and cognition facility programming and environmental evaluation four chapters address what the editors perceive to be new topics for environment behavior and design research Herbert Schroeder reports on advances in research on urban forestry For most of us the term forest probably conjures up visions of dense woodlands in rural or wild settings Nevertheless in many parts of the country urban areas have higher densities of tree coverage than can be found in surrounding rural landscapes Schroeder reviews research that addresses the perceived and actual benefits and costs associated with these urban forests Programming Practices in the Building Process, 1986 *Articles in ITJEMAST 13(5) 2022 TuEngr.com, Articles in ITJEMAST 13 5*

NBS Special Publication, 1980 **Handbook of Manufacturing Engineering, Second Edition - 4 Volume Set** Richard Crowson, Jack Walker, 1996-07-17 Provides single source coverage on the full range of activities that meet the manufacturing engineering process including management product and process design tooling equipment selection facility planning and layout plant construction materials handling and storage method analysis time standards and production control The text examines every topic involved with product and factory development parts fabrication and assembly processes

Computer-Aided Architectural Design: The Next City - New Technologies and the Future of the Built Environment Gabriela Celani, David Moreno Sperling, Juarez Moara Santos Franco, 2015-06-15 This book constitutes the refereed proceedings of the 16th International Conference on Computer Aided Architectural Design Futures CAAD Futures 2015 held in São Paulo Brazil in July 2015 The 33 revised full papers presented were carefully reviewed and selected from 200 submissions The papers are organized in topical sections on modeling analyzing and simulating the city sustainability and performance of the built space automated and parametric design building information modelling BIM fabrication and materiality shape studies **Facility Programming in Architectural Design** Robert Bartlett Harmon, 1982

Designing Interiors Rosemary Kilmer, W. Otie Kilmer, 2014-03-11 After its publication in 1992 *Designing Interiors* became a hugely successful reference tool and designing textbook In *Designing Interiors Second Edition* updates on trends in sustainability and green design building codes universal design and building information models amplify the already invaluable interior design tricks of trade Design professors Rosemary and Otie Kilmer provide a fuller design history that incorporates non Western design and dynamic color illustrations that flesh out technical concepts *Programming for Health and Wellbeing in Architecture* Keely Menezes, Pamela de Oliveira-Smith, A. Woodworth, 2021-11-10 *Programming for Health and Wellbeing in Architecture* presents a new approach to architectural programming that includes sustainability neuroscience and human factors This volume of contributions from noted architects and academics makes the case for rethinking the practices of programming and planning to incorporate evidence based design systems thinking and a deeper understanding of our evolutionary nature These 18 original essays highlight how human and environmental health are closely

related and should be incorporated as mutually reinforcing goals in every design project Together these chapters describe the framework for a new paradigm of building performance and design of the human experience Programming the stage at which research is conducted and goals established provides an opportunity to examine potential impacts and to craft strategies for wellbeing in new buildings and renovations using the latest scientific methods This book expands the scope of the programming process and provides essential guidance for sustainable practice and the advancement of wellbeing in the built environment for architecture and interiors students practitioners instructors and academics

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