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General - Introduction

DICTIONARY OF ARCHITECTURE AND CONSTRUCTION

4th Edition
by Cyril M. Harris, Columbia University
2006 / 1,040 pages / Hardcover

Professional Book
Updated and expanded, this Fourth Edition of the most trusted reference in architecture offers the most comprehensive coverage of architectural and construction terms available. This classic dictionary now features nearly 25,000 definitions (including 2,800 new terms), 2,500 illustrations (including 200 new illustrations), and maintains its extraordinary visual appeal and easy-to-read page design. Prepared by a renowned architectural editor in association with expert contributors and incorporating the work of many standards groups, the book presents clear, concise definitions of terms in nearly 80 working areas. The Fourth Edition covers new industry terms which have emerged due to changes in engineering and building technologies, organizations, materials, and legal developments, and has been expanded to include more historic architectural styles. New terms include: Legal Architectural Barriers Act Wheelchair Accessible Materials Fibrous Concrete Latex Mortar Polymer-Based Stucco Concrete Compliance Conformity Refractory Mortar Organizations Building Research Establishment (formerly Building Research Station) of Great Britain ASTM Historic Architectural Styles Anglo-Palladianism French Victorian Isabellino Mudajar Mozarabic Neo-Rococo

NEW TO THIS EDITION
• The most comprehensive architectural and construction dictionary available, with nearly 25,000 terms
• Strong visual appeal, with 2,500 illustrations and an easy-to-read page design
• Prepared by a renowned architectural editor, in association with expert contributors

Environmental Design/Energy

International Edition

PASSIVE AND ACTIVE ENVIRONMENTAL CONTROLS

by Dean Heerwagen, University of Washington
2004 / 512 pages

http://www.mcgrawhillengineeringcs.com

Active and Passive Environmental Controls for Buildings is written for the architecture audience. The book serves as an introduction to the subject of environmental controls and presents information necessary for the schematic design of buildings. It describes the various components of a particular system, developing how a system functions, how the systems components fit together and how spaces are organized to accommodate these components. The book demonstrates how each system is integrated with other building systems, such as the structural systems and the overall architecture of the building.

CONTENTS
The transformations that have occurred in Singapore’s landscape have been rapid since independence. Changing Landscapes of Singapore discusses these changes from the perspective of lived landscapes which have day-to-day meanings for Singaporeans. It begins with an exploration of the major physical changes resulting from rapid urbanisation and industrialisation and Singapore’s attempt to balance the stresses of physical development with the needs of a green agenda. Several other themes relating to landscape change follow. A section on landscapes of community and nationhood investigates how issues concerning shelter (public housing), heritage conservation, street-names and national symbols affect Singaporean’s notions of belonging. This is followed by a discussion on globalisation and the way it affects the nation-state’s development. This section examines not only Singapore’s efforts at regionalisation and its attempt to gain a better foothold in the workings of the global capitalistic system but also evaluates the impacts of globalisation in the society. The last section on forgotten landscapes is a reminder of who and what may be left behind in striving for excellence. Landscapes reveal and reflect forgotten needs as much as they record what have been remembered and valued. The various strands are brought together in the final chapter where the landscape is used as a lens to raise questions on future challenges. While intended as a general text for university students, this book will also provide source materials for school teachers (junior college and upper secondary levels), the general population as well as the general reader interested in understanding the country’s rapid landscape changes.

CONTENTS
Ramulu Vinnakota’s, Behavior and LRFD of Steel Structures stresses both the design of steel structures (as do the competing texts) and the behavior of steel under specific conditions. The most recent editions of the American Institute of Steel Construction’s Load and Resistance Factor Design Specifications (3e, 1999) and the LRFD Manual (3e, 2001) are used and extensively referenced in the Vinnakota text, and these documents are based on the behavior of steel. Therefore covering the interaction of design and behavior in one textbook is a unique approach. Designers must understand structural behavior as an integral part of the design process, and chapters 1 to 5 thoroughly cover this material. As Ramulu Vinnakota notes, “The heart and soul of design are the ability to conceive a structure that will behave as desired, and intuition regarding different framing options.” The balance of the chapters covers the elements that makeup a steel building structure: members and connections. In each chapter, discussion of theory and behavior of the member under various combinations of loads it must resist is followed by a discussion of design applications. Throughout the text, a web icon references readers to the book’s website (http://www.mhhe.com/vinnakota), which contains extensive additional coverage of advanced topics.

FEATURES
• This text integrates both design of steel structures with behavior of steel.
• Numerous carefully drawn figures of structural systems, members, and bolted and welded joints illustrate the text.
• The most recent editions of the LRFD Specifications and the LRFD Manual are used and extensively referenced throughout the text.
• Numerous worked out example problems emphasizing the application of design concepts are included.
• An accompanying website (http://www.mhhe.com/vinnakota) contains extensive advanced steel design and behavior coverage. These additional topics are closely integrated with the text.

CONTENTS
1 Introduction. 2 Steels. 3 Structures. 4 Design Loads and Design Philosophy. 5 Structural Analysis and Required Strengths. 6 Connectors. 7 Tension Members. 8 Axially Loaded Columns. 9 Adequately Braced Compact Beams. 10 Unbraced Beams. 11 Members Under Combined Forces. 12 Joints and Connecting Elements. 13 Connections.
The basic strategy of New Urbanism is to apply the techniques of Traditional Neighborhood Development—mixed-use, pedestrian-friendly communities—to urban and suburban growth. This was the dominant pattern of settlement in the United States until the 1950s and remains the dominant pattern elsewhere in the world. It is sustainable and environmentally sound. Suburban sprawl, which evolved after World War II, in contrast, is not a healthy growth system. It does not pay for itself financially; it consumes land at an alarming rate; it produces transportation problems and promotes social inequity. Smart Growth Manual clearly shows how to apply TND guidelines to revitalize American cities and towns.

CONTENTS

TIME SAVER STANDARDS FOR ARCHITECTURAL DESIGN
Eighth Edition
by Michael J Crosbie, and Donald Watson, Trumbull, CT
2005 / 640 pages / Hardcover
NEW TO THIS EDITION
- A fresh, visual approach to the information that architects need to access quickly
- Contributions from the most recognized and respected experts in their field
- Practical, drill-down information that will save professionals time and money
- The CD includes the complete version of the 7th Edition

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