

# Fundamentals Residential Construction Edward Allen

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now in its fifth edition this essential textbook has been used by thousands of students annually in schools of architecture engineering and construction technology the bestselling reference focuses on the basic materials and methods used in building construction emphasizing common construction systems such as light wood frames masonry bearing walls steel frames and reinforced concrete new introductory material on the processes organization constraints and choices in construction offers a better look at the management of construction new sections covering the building envelope uncover the secrets to designing enclosures for thermal insulation vapor retarders air barriers and moisture control the fifth edition also features more axonometric detail drawings and revised photographs for a thoroughly illustrated approach and the latest ibc 2006 csi masterformat astm references and leed information

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this third edition of the classic fundamentals of building construction offers a panoramic view of today's construction systems from foundation to roof exterior cladding to interior finishes every common system of construction is covered including wood light frame construction heavy timber masonry steel sitecast concrete and precast concrete new chapters offer coverage of light gauge steel frame construction and detailed information on selecting windows and doors architect and author edward allen addresses the history theory and practice of each type of construction including typical details of assembly the lucid text is supported by more than 600 photographs and 400 line drawings many of them arranged in sequences that illustrate construction operations step by step more than 200 of the illustrations were prepared especially for this new edition these include photographs of recent work by horst berger helmut jahn cesar pelli frank gehry eric owen moss steven holl and suzanne reatig this book is an essential reference for students of architecture civil engineering and construction technology it finds everyday use in virtually every architecture firm in north america

for the nuts and bolts on building construction practices and materials thousands of professionals and students of architecture engineering and construction technology have turned to edward allen and joseph iano's fundamentals of building construction this new fifth edition of the bestselling reference and textbook provides the most up to date survey of the basic materials and methods used in building construction using the latest building codes standards and developments in materials and technologies as its basis this book covers the complete range of construction activities from excavating and foundations to cladding and interior finishes and examines common construction systems such as light wood frame masonry bearing wall steel frame and reinforced concrete construction book jacket

illustrated with hundreds of illuminating line drawings this classic guide reveals virtually every secret of a building's function how it stands up keeps its occupants safe and comfortable gets built grows old and dies and why some buildings do this so much better than others drawing on things he's learned from the many buildings he himself designed and in some cases built with his own hands edward allen explains complex phenomena such as the role of the sun in heating buildings and the range of structural devices that are used for support from trusses and bearing walls to post tensioned concrete beams and corbeled vaults he stresses the importance of intelligent design in dealing with such problems as overheating and overcooling excessive energy use leaky roofs and windows fire safety and noisy interiors he serves up some surprises thermal insulation is generally a better investment than solar collectors board fences are not effective noise barriers there's one type of window that can be left open during a rainstorm the new edition emphasizes green architecture and eco conscious design and construction it features a prologue on sustainable construction and includes new information on topics such as the collapse of the world trade center sick building syndrome and eifs failures and how they could have been prevented allen also highlights the array of amazing new building materials now available such as self cleaning glass photovoltaics transparent ceramics cloud gel and super high strength concrete and structural fibers edward allen makes it easy for everyone from armchair architects and sidewalk superintendents to students of architecture and construction to understand the mysteries and complexities of even the largest building from how it recycles waste and controls the movement of air to how it is kept alive and growing

designed to accompany fundamentals of building construction edward allen sixth edition 2013

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here in one volume is all the architect needs to know to participate in the entire process of designing structures emphasizing bestselling author edward allen s graphical approach the book enables you to quickly determine the desired form of a building or other structure and easily design it without the need for complex mathematics this unique text teaches the whole process of structural design for architects including selection of suitable materials finding a suitable configuration finding forces and size members designing appropriate connections and proposing a feasible method of erection chapters are centered on the design of a whole structure from conception through construction planning

the time saving resource every architect needs the architect s studio companion is a robust user friendly resource that keeps important information at your fingertips throughout the design process it includes guidelines for the design of structure environmental systems parking accessibility and more this new sixth edition has been fully updated with the latest model building codes for the u s and canada extensive new information on heating and cooling systems for buildings and new structural systems all in a form that facilitates rapid preliminary design more than just a reference this book is a true companion that no practicing architect or student should be without this book provides quick access to guidelines for systems that affect the form and spatial organization of buildings and allows this information to be incorporated into the earliest stages of building design with it you can select configure and size structural systems plan for building heating and cooling incorporate passive systems and daylighting into your design design for parking and meet code related life safety and accessibility requirements relying on straightforward diagrams and clear written explanations the designer can lay out the fundamental systems of a building in a matter of minutes without getting hung up on complicated technical concepts by introducing building systems into the early stages of design the need for later revisions or redesign is reduced and projects stay on time and on budget the architect s studio companion is the time saving tool that helps you bring it all together from the beginning

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