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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

the interactive resource center is an online learning environment where instructors and students can access the tools they need to make efficient use of their time while reinforcing and assessing their understanding of key concepts for successful understanding of the course the online interactive resource center contains resources tied to the book such as 45 interactive exercises including all required objects as well as a video tutorial on the basics of sketchup and how to complete exercises tied to key concepts interactive animations revealing complex construction processes image gallery including 75 full color photorealistic renderings flashcards and self tests by chapter for reinforcing key terms and concepts supplementary photo gallery demonstrating construction operations

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

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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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