

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

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 suzane 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

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

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

the leading guide to professional home construction now updated and revised fundamentals of residential construction third edition features the most up to date explanations of today s residential construction systems from foundation to roof and exterior finishes to interior details this new edition thoroughly addresses the latest developments in materials and methods of house construction including energy efficiency framing and roofing abundantly illustrated with more than 1 250 drawings and photographs including new photorealistic illustrations that bring the text to life this third edition provides authoritative coverage on wood light frame construction industrialized systems of construction insulating concrete forms light gauge steel frame panelized construction and a new chapter on multifamily construction topics covered include plumbing building codes heating and cooling financing wiring roofing thermal insulation environmental concerns foundations finish sitework rough sitework wood and light gauge steel framing engineered materials exterior and interior finishes organized in a logical easy to follow format fundamentals of residential construction third edition is the one stop source for building professionals to gain a working knowledge of codes management procedures material and all home building concerns

allen fundamentals of building construction 6e now offers a wiley e text powered by vital source with interactive resource center registration card wiley e texts are built in partnership with vital source technologies with many features and benefits search to locate key concepts highlight as you read make notes for revision notes and highlights will synchronize across all devices share notes with others 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 an access card with redemption code for the online interactive resource center is included with all new print copies or can be purchased separately if you rent or purchase a used book with an access code the access code may have been redeemed previously and you may have to purchase a new access code isbn 9781118820223 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 now in its sixth edition this bestselling reference focuses on the basic materials and methods used in building construction emphasizing common construction systems such as light wood frame masonry bearing wall steel frame and reinforced concrete construction the new edition includes new information on building materials properties the latest on pre engineered building components and sustainability issues and reflects the latest building codes and standards it also features an expanded series of case studies along with more axonometric detail drawings and revised photographs for a thoroughly illustrated approach

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

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the most comprehensive guide to material selection installation it takes a wise choice of building materials and details to create durable attractive and affordable custom homes and remodeling projects best practices guide to residential construction provides up to date field tested recommendations that help professionals balance cost and performance when designing and building residential projects steven bliss former editorial director of the journal of light construction and founding editor of progressive builder draws on his extensive knowledge as a practicing builder designer and construction editor to help building professionals select the right materials for every job and install them with confidence this one stop resource covers the real world challenges of material selection and installation so designers contractors and building owners can make informed decisions for all major building components useful to architects designers and specifiers as well as contractors builders and developers best practices guide to residential construction features more than 200 photos and illustrations of critical residential construction details installation tips and cautions that help prevent costly product failures descriptions of the latest composites and synthetics that are changing the way we build easy to use charts for making quick product comparisons an authoritative guide to indoor air quality and healthy house construction

this book provides a comprehensive guide to the successful use of steel in building and will form a unique source of inspiration and reference for all those concerned with architecture in steel

buildings don t just appear while the aesthetics and theory of architecture have their glamour architecture would not exist without the hands on nuts and bolts process of construction construction of architecture gives architects contractors managers trade workers and anyone else involved in a building project a thorough overview of the process of taking or converting a fine design concept from a paper exercise to a finished full sized occupiable and usable building in an easy to read conversational style ralph liebman distills the often complex procedures in the construction of architecture into clear understandable phases connecting each phase to the next he takes you step by step from project inception and documentation to code compliance to bidding and the contract through finalization of the project and occupancy of the completed building this book is enhanced with features such as drawings and photographs of the building process samples of documents used in construction a concise narrative of the construction of a typical commercial building from start to finish an instructor companion site with an expanded glossary and additional resources with this primer in hand every aspiring building professional will have the solid foundation in the concepts and skills needed to bring any building project to fruition from inception to occupancy

this edition of the industry standard on architectural detailing includes new sections covering analysis and modification of existing details and design of new details both basic and advanced revised to address sustainability and to reflect the international building code architectural detailing continues to deliver reliable insightful information on how to design details that will be water and airtight control the flows of heat and water vapor adjust to all kinds of movement age gracefully be easy to construct and still look good conveniently organized by the three major concerns of the detailer function constructibility and aesthetics this edition features richly illustrated examples of detail design case studies and practical exercises new and revised patterns showing form constructibility and aesthetics everything you need whether a student or professional to design details that work order your copy today

learn how managers of the construction process use construction graphics to analyze evaluate and organize the labor equipment and materials required to fulfill the design professionals instructions regarding a project construction drawings are in their essence a set of goals the graphic and written instructions provided by architects and engineers to construction professionals that adequately manifest the outcomes sought for a project construction professionals translate those instructions into discreet processes and sequences of work to which values in both time and money can be attributed construction graphics has long stood as the essential treatment of this subject from the constructor s point of view now updated from the second edition the third edition reflects advances in technology and project delivery systems and offers an analysis of how the ideas discussed throughout the text might be applied in the context of one system in a commercial building construction graphics continues to be an indispensable volume for anyone managing construction work readers of the third edition of construction graphics will also find enhanced treatment of technology as it operates in construction project delivery and the relationship between design professionals and builders exercises at the end of each chapter with detailed answers in a helpful appendix illustrations and figures throughout to emphasize key concepts construction graphics is ideal for students in construction management construction engineering architecture architectural engineering project management and interior design programs in community college and four year university programs

eliminate costly and potentially disasterous conceptual errors in your next structural design make sure your next building project is free of the conceptual errors that can cause structural failure with mcgraw hill s building anatomy an illustrated guide to how structures work packed with a wealth of informative diagrams and illustrations this essential volume drills deep into the concepts behind structural systems to give you a critical understanding of how they work from potential loads load combinations and superstructure to lateral support systems foundations and site soil

and geology building anatomy can help you design structures that will stand the test of time written in clear easy to understand language by an award winning architect and professor building anatomy delivers easy access to critical information to help you select structural systems based on the pros and cons of each system size and arrange major structural components identify concerns for each type of structural system anticipate probable failure scenarios explain each system s behavior under loads such as seismic and wind understand construction issues encountered during fabrication and erection of each structure type and more with its critical information comprehensive coverage and indispensable illustrations building anatomy delivers the nuts and bolts guidance you need to avoid conceptual mistakes during structural design you can t afford to work without it

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