

### Ontario Code And Construction Guide For Housing

Construction is a multibillion dollar industry in the United States, yet building research is highly fragmented. This new book is a complete compilation of building research institutions. It contains profiles of the institutions and gives their addresses and phone numbers, the mission and focus of their research, their distinctive attributes, and their publications. A comprehensive index identifies all institutions conducting research on specific topics.

This book is a thorough and comprehensive update of the 2002 edition, that incorporates detailed references to the Canadian, American, and British (European) standards, contextualized by the author based on over 30 years of construction experience. In addition to updates to the core text, many new topics are presented in the second edition, including a chapter discussing the methods for achieving quality control and ensuring quality assurance in concrete construction. The book consists of two parts. The first part provides basic information about normal concrete, its grades used on sites and various kinds of modified concretes such as fiber- reinforced concrete, sulphur concrete, roller compacted concrete, high performance concrete, ultra- high performance concrete, and flowing concrete. . It further addresses physical properties of concrete and various types of Portland cement, blended cements, admixtures, additives including properties of aggregates and their influence. The second part of the book highlights the principal causes of concrete deterioration along with protective measures, resulting from incorrect selection of constituent materials, poor construction methods, external factors, chemical attack, corrosion problems, hot and cold weather effects, and the various errors in designing and detailing. Featuring an extensive bibliography of the highly adopted standards as well as manuals and journals critical to the construction industry at the end of each chapter, the volume offers readers an advanced understanding of the theory and practical application of concrete technology and international standards in North America and Britain. Addresses concrete technology as well as concrete construction practices, meeting national and international standards; Maximizes readers' understanding of the principal causes of concrete deterioration along with protective measures; Facilitates readers' grasp of different nomenclature used for the same materials in different parts of the world; Features suitable tables, charts, and diagrams that illustrate and organize useful information; Explains sustainable concrete doctrine and how to achieve it meeting green concrete / building requirements; Provides a glossary, conversion factors, and examples of concrete mix design. .

Housing research in Atlantic Canada has shown that the region has particularly severe and persistent problems with moisture in housing. This document presents information targeted to the residential construction industry in the Atlantic region to meet their need for a guide to solving moisture-related problems. It begins with a review of the Atlantic region's construction industry and construction practices and on the nature of moisture problems. Sources of moisture, the science of moisture in buildings and in wood, moisture movement, and identification of moisture problems are discussed. The document then describes tools for controlling moisture movement, including water shedding systems, rainscreens, barriers, and drainage and ventilation systems.

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The document concludes with a design guide based on the concept of the house as a system. This section covers envelope design, below- and above-grade construction, interior finishing, & mechanical systems.

This text teaches readers how to analyse and design with fiber reinforced polymers (FRP) for civil engineering applications. It demystifies FRP composites and demonstrates applications where their properties make them ideal materials to consider off-shore and waterfront structures, factories, and storage tanks.

Log Home Living is the oldest, largest and most widely distributed and read publication reaching log home enthusiasts. For 21 years Log Home Living has presented the log home lifestyle through striking editorial, photographic features and informative resources. For more than two decades Log Home Living has offered so much more than a magazine through additional resources—shows, seminars, mail-order bookstore, Web site, and membership organization. That's why the most serious log home buyers choose Log Home Living.

Developed through an extensive process of consultation with leading professionals and health and safety institutions worldwide, the new, expanded, and long-awaited Fourth Edition of this well-respected reference provides comprehensive, timely, and accurate coverage of occupational health and safety. Aimed at the specialist and non-specialist alike, such as lawyers, doctors, nurses, engineers, toxicologists, regulators, and other safety professionals, this compendium is organized and designed to provide the most critical information in an easy-to-read format. It uses more than 1,000 illustrations, a new attractive layout, and provides thousands of cited references that provide up-to-date literature reviews. Indexes by subject, chemical name, and author make navigating through information quick and easy. The CD-ROM version includes the same information as the print volumes, plus the benefit of a powerful search and retrieval engine to make searching for information as easy as a mouse click. Here's a sampling of what's covered in each volume and the CD-ROM: Volume 1: The body, health care, management and policy, tools and approaches Volume 2: Psychological and organizational factors, hazards, the environment, accidents, and safety Volume 3: Chemicals, industries and occupations Volume 4: Index by subject, chemical name, author, cross-reference guide, directory of contributors.

This text is about electrical and instrumentation safety for chemical processes. It covers a wide area of electrical and electronic phenomena and how they have and can significantly affect the safety of chemical processes. The importance of the subject is well known to anyone involved in the operation of chemical processes. Lightning strikes can explode storage tanks, shut down electrical power systems, and shut down or damage computer and instrument systems. Static electricity can ignite flammable materials and damage sensitive electronic process control equipment. Electrical power system failures or interruptions can produce unsafe process conditions. Chemical processes use flammable and combustible vapors, gases, or dusts that can be exploded by electrical equipment and wiring. Even low-energy equipment like flashlights can ignite a flammable vapor. Interlock and equipment protection systems can cause safety problems. How important is electrical and process control safety? A survey on "How Safe is Your Plant?", in the April 1988 issue of Chemical Engineering magazine, provided some answers. Among the results

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of this survey of chemical processes, it was found that over 800 respondents believed instrumentation and controls, shutdown systems, equipment interlocks, and other protection systems to be the least safe aspect of chemical industries. The survey also indicated that complying with OSHA and other regulations, process control software security, inspections, audits, and safety training are important safety issues.

Fiber-reinforced polymer (FRP) composites have become an integral part of the construction industry because of their versatility, enhanced durability and resistance to fatigue and corrosion, high strength-to-weight ratio, accelerated construction, and lower maintenance and life-cycle costs. Advanced FRP composite materials are also emerging for a wide range of civil infrastructure applications. These include everything from bridge decks, bridge strengthening and repairs, and seismic retrofit to marine waterfront structures and sustainable, energy-efficient housing. The International Handbook of FRP Composites in Civil Engineering brings together a wealth of information on advances in materials, techniques, practices, nondestructive testing, and structural health monitoring of FRP composites, specifically for civil infrastructure. With a focus on professional applications, the handbook supplies design guidelines and standards of practice from around the world. It also includes helpful design formulas, tables, and charts to provide immediate answers to common questions. Organized into seven parts, the handbook covers: FRP fundamentals, including history, codes and standards, manufacturing, materials, mechanics, and life-cycle costs Bridge deck applications and the critical topic of connection design for FRP structural members External reinforcement for rehabilitation, including the strengthening of reinforced concrete, masonry, wood, and metallic structures FRP composites for the reinforcement of concrete structures, including material characteristics, design procedures, and quality assurance—quality control (QA/QC) issues Hybrid FRP composite systems, with an emphasis on design, construction, QA/QC, and repair Quality control, quality assurance, and evaluation using nondestructive testing, and in-service monitoring using structural health monitoring of FRP composites, including smart composites that can actively sense and respond to the environment and internal states FRP-related books, journals, conference proceedings, organizations, and research sources Comprehensive yet concise, this is an invaluable reference for practicing engineers and construction professionals, as well as researchers and students. It offers ready-to-use information on how FRP composites can be more effectively utilized in new construction, repair and reconstruction, and architectural engineering. An excellent guide for anyone with a water system or water system problem, *Water Quality and Systems* provides an A-Z reference for improving water quality, meeting new regulations, and reducing costs. Every page contains a time- and money-saving tip. The book covers water purity, renovations, design, construction, equipment, systems, cost reduction, maintenance, and more. It also includes information on the EPA's WAVE Saver program for the hotel/motel industry as well as coverage of other regulations and codes. The book is designed to make the information easy to find for the busy manager or professional who doesn't have time to wade through pages and pages of textbook approaches.

Safety at Work is widely accepted as the most authoritative guide to safety and health in the workplace. Its comprehensive coverage and academically rigorous approach make it essential reading for students on occupational safety and health courses at

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diploma, bachelor and master level, including the NEBOSH National Diploma. Health and safety professionals turn to it for detailed coverage of the fundamentals and background of the field. The seventh edition has been revised to cover recent changes in UK legislation and practice, including: Construction (Design & Management) Regulations 2007 Regulatory Reform (Fire Safety) Order 2005 Work at Height Regulations 2005 Control of Noise at Work Regulations 2005 Control of Vibration at Work Regulations 2005 Waste regulations 2005, 2006 ISO 12100 Safety of Machinery - Basic concepts and general principles

This comprehensive new guide, available in two volumes, addresses Sections I through XI of the ASME Boiler and Pressure Vessel Code and Codes B31.1 and B31.3 for Pressure Piping. Contributors also provide examples and explanatory text, graphics, references, and annotated bibliographic notes. As a result, engineers can immediately refer to the material requirements to find acceptance criteria. Its indepth treatment of each of the Code sections makes this the definitive companion book to the ASME Boiler and Pressure Vessel Code. Volume 1 covers Code Sections I, II, III, IV, VI and VII, as well as Codes B31.1 and B31.3 for Piping. Volume 2 includes Sections V, VII, IX, X, and XI, as well as special topics relating to the Code. Each volume contains full introductory material, table of contents, author information, and indexes for both volumes.

The construction process has come under intense scrutiny in recent times and this is set to continue as building owners and users demand better value for money from a more sustainable built environment. The construction sector's actors are responding to the challenges implicit in this drive for greater competitiveness and social responsibility. New forms of procurement, innovation programmes, knowledge management, CAD-supported processes, predictive and diagnostic tools, and many more initiatives are helping to transform the sector. Construction Process Improvement showcases 21 examples of how directed efforts are being taken to raise productivity and quality, reduce waste and costs, and provide more certain and durable products for the sector's customers. Each example is the subject of a closely coupled collaborative project in which answers are being sought on matters of strategic importance to companies. The chapters that describe and discuss these projects balance state-of-the-art reviews with details of the work being undertaken and, in many cases, the results that are being implemented within the companies.

Construction Process Improvement deals with issues that matter to best practice companies and researchers in industry and universities. It covers, amongst other topics, modularisation for manufactured housing, life cycle methods in housing, commercial buildings and services installations, tools and techniques for performance prediction and diagnostics, coordination of design and production processes, novel use of traditional materials, new forms of procurement and the role of innovation, public private partnerships, partnering structures, learning organisations, management of major refurbishment, management information systems, TQM and continuous improvement, CAAD methodology, tools and 4-D CAD, and facilities management. This book analyses the way forward for improving the construction process, in particular the links between research and development and industrial competitiveness. The implementation of new methods and thinking in companies is examined and important advice for senior managers and researchers is offered.

In parallel columns of French and English, lists over 4,000 reference works and books on history and the humanities, breaking

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down the large divisions by subject, genre, type of document, and province or territory. Includes titles of national, provincial, territorial, or regional interest in every subject area when available. The entries describe the core focus of the book, its range of interest, scholarly paraphernalia, and any editions in the other Canadian language. The humanities headings are arts, language and linguistics, literature, performing arts, philosophy, and religion. Indexed by name, title, and French and English subject.

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An international team of experts has joined forces to produce the Bridge Engineering Handbook. They address all facets-the planning, design, inspection, construction, and maintenance of a variety of bridge structures-creating a must-have resource for every bridge engineer. This unique, comprehensive reference provides the means to review standard practices and keep abreast of new developments and state-of-the-art practices. Comprising 67 chapters in seven sections, the authors present:

Fundamentals: Provides the basic concepts and theory of bridge engineering  
Superstructure Design: Discusses all types of bridges  
Substructure Design: Addresses columns, piers, abutments, and foundations  
Seismic Design: Presents the latest in seismic bridge design  
Construction and Maintenance: Focuses on the practical issues of bridge structures  
Special Topics: Offers new and important information and unique solutions  
Worldwide Practice: Summarizes bridge engineering practices around the world. Discover virtually all you need to know about any type of bridge: Reinforced, Segmental, and Prestressed Concrete Steel beam and plate girder Steel box girder Orthotropic deck Horizontally curved Truss Arch Suspension Cable-stayed Timber Movable Floating Railroad Special attention is given to rehabilitation, retrofit, and maintenance, and the Bridge Engineering Handbook offers over 1,600 tables, charts, and illustrations in ready-to-use format. An abundance of worked-out examples give readers step-by-step design procedures and the section on Worldwide Practice provides a broad and valuable perspective on the "big picture" of bridge engineering.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. In-depth, "what-to-do-now" building strategies to secure structures against natural forces as well as terrorism This unique, practical resource is written for building owners, architects, engineers, construction managers, and other building professionals who must meet today's urgent security needs. Architectural Security Codes and Guidelines delivers effective, permanent solutions to securing structures right now. The only resource to provide such on-the-job guidance, Architectural Security Codes and Guidelines defines all relevant issues, including the environment, sustainability, energy, information technology, changing demographics, safety vs. affordability, and much more, and outlines the roles and responsibilities of all participants. Provides step-by-step "best practices" guidelines and at-a-glance checklists for disaster preparation, mitigation, response, and recovery Fully addresses topics such as risk-threat assessments, recommended HVAC systems and emergency generators...how to ensure that the elderly/handicapped can exit buildings quickly and safely...more Lists the newest technologies and materials relevant to creating more secure structures...explains their advantages and disadvantages...tells how to incorporate them into new construction and/or use them for retrofitting INSIDE Architectural

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Security Codes and Guidelines Construction Regulation Then and Now • Defining the Issues and Roles • Existing Codes • Existing Structures: Inspecting and Retrofitting • Before New Codes Are in Place: Interim Solutions • Preparation, Mitigation, Response and Recovery for Terrorism and Natural Disasters • New Technologies and Materials • Security and the Future Direction of Construction Industry • Resources for Additional Information

In the field of compressed gases and related equipment, there is an expanding core of essential knowledge that people handling and using these materials should be familiar with or should know where to find. The focus of this book concerns the properties and the accepted means of transportation, storage, and handling of compressed gases. This handbook is simultaneously intended as an overview of the subject and a source of supplementary information. It is also intended to serve as a guide to pertinent federal regulatory requirements and published standards of the Compressed Gas Association and other standards-developing organizations. The Association advises readers that the CGA technical publications remain the official statement of policy on a particular matter. Reference is made throughout this text to the numerous technical publications published by the Compressed Gas Association. Some of these publications have been incorporated by reference into federal, state, provincial, and local regulations. Since the CGA publications are reviewed on a periodic basis, whenever the text of this handbook conflicts with corresponding information in the CGA technical pamphlets, the most recently printed material shall take precedence.

The definitive guide to stability design criteria, fully updated and incorporating current research Representing nearly fifty years of cooperation between Wiley and the Structural Stability Research Council, the Guide to Stability Design Criteria for Metal Structures is often described as an invaluable reference for practicing structural engineers and researchers. For generations of engineers and architects, the Guide has served as the definitive work on designing steel and aluminum structures for stability. Under the editorship of Ronald Ziemian and written by SSRC task group members who are leading experts in structural stability theory and research, this Sixth Edition brings this foundational work in line with current practice and research. The Sixth Edition incorporates a decade of progress in the field since the previous edition, with new features including: Updated chapters on beams, beam-columns, bracing, plates, box girders, and curved girders. Significantly revised chapters on columns, plates, composite columns and structural systems, frame stability, and arches Fully rewritten chapters on thin-walled (cold-formed) metal structural members, stability under seismic loading, and stability analysis by finite element methods State-of-the-art coverage of many topics such as shear walls, concrete filled tubes, direct strength member design method, behavior of arches, direct analysis method, structural integrity and disproportionate collapse resistance, and inelastic seismic performance and design recommendations for various moment-resistant and braced steel frames Complete with over 350 illustrations, plus references and technical memoranda, the Guide to Stability Design Criteria for Metal Structures, Sixth Edition offers detailed guidance and background on design specifications, codes, and standards worldwide.

The bestselling step-by-step framing guide—updated and expanded to meet 2018 codes and standards Complete Book of Framing, Second Edition—Updated and Expanded is a comprehensive guide to rough carpentry and framing, written by an expert with over

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forty years of framing experience. This book guides the reader through step-by-step framing instructions for floors, walls, roofs, door and window openings, and stairs. Hundreds of full-color illustrations and photos enable novice and professional framers to understand and master framing techniques. This Updated and Expanded Second Edition includes the framing techniques of the 2018 International Building Code (IBC), International Residential Code (IRC), and updated OSHA rules. It also includes new coverage of today's electric tools, wind and earthquake framing, medical and physiological factors of framing, and a revised safety chapter. Builders will find information on nailing patterns, overall layout, engineered wood patterns, and green framing. In addition, the book offers readers tools and techniques for preparing for a job and managing a team. This Second Edition—Updated and Expanded: Includes hundreds of full-color illustrations depicting step-by-step framing techniques Offers guidance on today's electric tools and structural enhancements for natural disasters Features a revised chapter on safety to reflect the medical and physiological factors of framing Meets the framing techniques of the 2018 International Building Code (IBC), International Residential Code (IRC), and Occupational Safety and Health Administration (OSHA) standards Complete Book of Framing: An Illustrated Guide for Residential Construction, Second Edition—Updated and Expanded is an excellent resource for framers, carpenters, and contractors of all experience levels. Framer-friendly tips throughout the book show how to complete framing tasks efficiently and effectively.

This title reviews the issues relating to agricultural trade and competition. Features include chapters on world trade and trade liberalization as well as chapters on the situation in the European Union, USA, Canada, Australia and developing countries.

This timely volume presents a range of critical topics on the use of composite materials in civil engineering; industrial, commercial, and residential structures; and historic buildings. Structural strengthening techniques based on composite materials, including, but not limited to, fiber-reinforced polymers, fiber-reinforced glasses, steel-reinforced polymers, and steel-reinforced glasses represent a practice employed internationally and have become an important component in the restoration of buildings impacted by natural hazards and other destructive forces. New Composite Materials: Selection, Design, and Application stands as a highly relevant and diverse effort, distinct from other technical publications dealing with building issues. The book focuses extensively on characterization of techniques employed for structural restoration and examines in detail an assortment of materials such as concrete, wood, masonry, and steel.

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Prepared by the Subcommittee on Evaluation, Maintenance, and Upgrading of Timber Structures of the Committee on Wood of the Structural Division of ASCE. This report presents information on technical aspects of inspection, evaluation, reinforcement, repair, and rehabilitation of timber structures. Any structure, regardless of the material from which it is made, may be subject to a review of its ability to perform a specific function or functions. This report reviews factors that influence the serviceability of wood structures, including loadings, duration of loads, temperature, moisture and weathering. Effects of chemicals and fire, as well as insects, fungi, and other organisms that attack wood are also covered. Designing to avoid problems caused by these factors is discussed. Inspection techniques and equipment are described, along with guidelines on where to look and what to look for. A section of evaluation of wood structures includes criteria such as structural analysis, determination of loads, and estimating load carrying capacity.

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This new handbook fills the need for in-depth coverage of concrete construction engineering and technology. It features discussions on what design engineers and contractors need to know about concrete materials and systems - one of the most versatile materials available. The Concrete Construction Engineering Handbook focuses on these important topics:

The Building Code sets out technical requirements for the construction (including renovation) and demolition of buildings, the change of use of existing buildings where the change would result in an increase in hazard and the maintenance and operation of on-site sewage systems. It is a set of minimum provisions respecting the safety of buildings with reference to public health, fire protection, accessibility and structural sufficiency. This edition of the Building Code Compendium contains the supplementary standards referenced by the Code and additional explanatory material and is prepared for purposes of convenience only. Volume one of the Compendium begins with highlights of major changes, a guide for requesting changes to the Code, the Code amendment history, and the Building Code Act. It then details the Code within three main divisions: Division A: Compliance, objectives and functional statements; Division B: Acceptable solutions; and Division C: Administrative provisions. Volume two includes explanatory information, imperial conversion, and supplementary standards.--Includes text from document.

Cumulates monthly issues and includes additional material.

The intention of fib Bulletin 32 is to present guidelines for the design of footbridges as well as bridges accommodating cyclists and bridleways (equestrian paths). The need for these guidelines comes from the fact that structural engineers designing footbridges currently have to spend considerable time and energy collecting information from numerous documents, codes and recommendations to make design decisions. There seems to be no international document dedicated solely to the design of footbridges. These guidelines attempt to provide a concentrated source of information regarding all design issues specific to footbridges. It is meant to be a 'liberal' document in the sense that it promotes new, innovative and bold yet prudent designs by sharing the experience of the authors, summarizing specifications given in codes, and presenting a collection of examples of well-designed structures or structural details from around the world. It is not intended to be an international code that specifies limits and admissible values, thus encouraging timid, conservative designs that are repetitions of approved and tested designs. Indeed, it may be the very fact that no international code exists specifically for footbridges that encourages the wide variety of footbridge designs found today. It should be noted that numerous guidelines, codes and books have been published on bridge design in general. Information given in those publications that is also applicable to footbridges is not repeated in Bulletin 32. The chapters of these guidelines all follow the same pattern: an introduction to the subject, general guidelines as well as do's and don'ts; a summary of information found in existing international codes, recommendations, experience of the authors, and built examples with comparison and comments on this information; examples. Plenty of illustrations and photographs help to visualize the themes of this work. The last chapter, 'Case Studies', contains footbridges each with a short summary of main structural data and references for further reading.

Over 140 experts, 14 countries, and 89 chapters are represented in the second edition of The Bridge Engineering Handbook. This extensive collection highlights bridge engineering specimens from around the world, contains detailed information on bridge

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engineering, and thoroughly explains the concepts and practical applications surrounding the subject. Published in five books: Fundamentals, Superstructure Design, Substructure Design, Seismic Design, and Construction and Maintenance, this new edition provides numerous worked-out examples that give readers step-by-step design procedures, includes contributions by leading experts from around the world in their respective areas of bridge engineering, contains 26 completely new chapters, and updates most other chapters. It offers design concepts, specifications, and practice, as well as the various types of bridges. The text includes over 2,500 tables, charts, illustrations and photos. The book covers new, innovative, and traditional methods and practices, explores rehabilitation, retrofit, and maintenance, and examines seismic design, and building materials. The first book, Fundamentals contains 22 chapters, and covers aesthetics, planning, design specifications, structural modeling, fatigue and fracture. What's New in the Second Edition: • Covers the basic concepts, theory and special topics of bridge engineering • Includes seven new chapters: Finite Element Method, High Speed Railway Bridges, Concrete Design, Steel Design, Structural Performance Indicators for Bridges, High Performance Steel, and Design and Damage Evaluation Methods for Reinforced Concrete Beams under Impact Loading • Provides substantial updates to existing chapters, including Conceptual Design, Bridge Aesthetics: Achieving Structural Art in Bridge Design, and Application of Fiber Reinforced Polymers in Bridges This text is an ideal reference for practicing bridge engineers and consultants (design, construction, maintenance), and can also be used as a reference for students in bridge engineering courses.

The essential guide to blending safety and health with economical engineering Over time, the role of the engineer has evolved into a complex combination of duties and responsibilities. Modern engineers are required not only to create products and environments, but to make them safe and economical as well. Safety and Health for Engineers, Second Edition is a comprehensive guide that helps engineers reconcile safety and economic concerns using the latest cost-effective methods of ensuring safety in all facets of their work. It addresses the fundamentals of safety, legal aspects, hazard recognition, the human element of safety, and techniques for managing safety in engineering decisions. Like its successful predecessor, this Second Edition contains a broad range of topics and examples, detailed references to information and standards, real-world application exercises, and a significant bibliography of books for each chapter. Inside this indispensable resource, you'll find: \* The duties and legal responsibilities for which engineers are accountable \* Updated safety laws and regulations and their enforcement agencies \* An in-depth study of hazards and their control \* A thorough discussion of human behavior, capabilities, and limitations \* Key instruction on managing safety and health through risk management, safety analyses, and safety plans and programs Additionally, Safety and Health for Engineers includes the latest legal considerations, new risk analysis methods, system safety and decision-making tools, and today's concepts and methods in ergonomic design. It also contains revised reference figures and tables, OSHA permissible exposure limits, and updated examples and exercises taken from real cases that challenged engineering designs. Written for engineers, plant managers, safety professionals, and students, Safety and Health for Engineers, Second Edition provides the information and tools you need to unite health and safety with economical engineering for safer technological

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solutions.

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