

STEEL CONSTRUCTION



MANUAL

AMERICAN INSTITUTE
OF
STEEL CONSTRUCTION
INC.

THIRTEENTH EDITION

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by

American Institute of Steel Construction, Inc.

ISBN 1-56424-653-X

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Printed in the United States of America

First Printing: December 2003

FOREWORD

The American Institute of Steel Construction, founded 1921, is the non-profit technical specifying and trade organization for the fabricated structural steel industry in the United States. Executive and engineering headquarters of AISC are maintained in Chicago.

The Institute is supported by four classes of membership: Active Members engaged in the fabrication, production, and sale of structural steel; Associate Members, who include Engineers, Detailers, Industry-Related Consultants, Software Developers, and Steel Product Manufacturers; Professional Members, who are individuals or firms engaged in the practice of architecture or engineering, including architectural and engineering educators; and Affiliate Members, who include General Contractors, Building Inspectors, and Code Officials. The continuing financial support and active participation of Members in the engineering, research and development activities of the Institute make possible the publishing of this *Steel Construction Manual*.

The Institute's objective is to make structural steel the material of choice, by being the leader in structural-steel-related technical and market-building activities, including: specification and code development, research, education, technical assistance, quality certification, standardization, and market development. AISC has a long tradition of service to the steel construction industry providing timely and reliable information.

To accomplish these objectives, the Institute publishes research, design guides, and specifications. Best known and most widely used is the *Steel Construction Manual*, which holds a highly respected position in engineering libraries. Outstanding among AISC standards are the *Specification for Structural Steel Buildings* and the *Code of Standard Practice for Steel Buildings and Bridges*.

The Institute also publishes technical information and timely articles in its *Engineering Journal*, *Design Guide* series, *Modern Steel Construction* magazine, and other design aids, research reports, and journal articles. Almost all of the information AISC publishes is available for download from the AISC web site at www.aisc.org.

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**Jai B. Kim, Robert H. Kim, Jonathan
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Structural Analysis and Design of Tall Buildings Bungale S. Taranath, 2016-04-19 As software skills rise to the forefront of design concerns the art of structural conceptualization is often minimized Structural engineering however requires the marriage of artistic and intuitive designs with mathematical accuracy and detail Computer analysis works to solidify and extend the creative idea or concept that might have started out as a sketch on the back of an envelope From Sketches on the Back of an Envelope to Elegant Economical Buildings The Art of Structural Conceptualization Bridging the gap between the conceptual approach and computer analysis Structural Analysis and Design of Tall Buildings Steel and Composite Construction integrates the design aspects of steel and composite buildings in one volume Using conceptual thinking and basic strength of material concepts as foundations the book shows engineers how to use imperfect information to estimate the answer to larger and more complex design problems by breaking them down into more manageable pieces Written by an accomplished structural engineer this book discusses the behavior and design of lateral load resisting systems the gravity design of steel and composite floors and columns and methods for determining wind loads It also examines the behavior and design of buildings subject to inelastic cyclic deformation during large earthquakes with an emphasis on visual and descriptive analysis as well as the anatomy of seismic provisions and the rehabilitation of seismically vulnerable steel buildings Intuitive Techniques for Construction and Design The book covers a range of special topics including performance based design and human tolerance for the wind induced dynamic motions of tall buildings It also presents preliminary analysis techniques graphical approaches for determining wind and seismic loads and graphical aids for estimating unit quantity of structural steel The final chapter deals with the art of connection design Forty case studies from New York's Empire State Building to Kuala Lumpur's Petronas Towers highlight the aspects of conceptualization that are key in the design of tall and ultra tall buildings A comprehensive design reference this book guides engineers to visualize conceptualize and realize structural systems for tall buildings that are elegant and economical

Using the Engineering Literature

Bonnie A. Osif, 2016-04-19 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links

Modern Steel Construction, 2009 **Structural Analysis of Historical Constructions: Anamnesis, Diagnosis, Therapy, Controls** Koen Van Balen, Els Verstrynghe, 2016-11-03 Structural Analysis of Historical Constructions Anamnesis diagnosis therapy controls contains the papers presented at the 10th International Conference on Structural Analysis of Historical Constructions SAHC2016 Leuven Belgium 13-15 September 2016 The main theme of the book is Anamnesis Diagnosis Therapy Controls which emphasizes the importance of all steps of a restoration process in order to obtain a thorough understanding of the structural behaviour of built cultural heritage The contributions cover every aspect of the

structural analysis of historical constructions such as material characterization structural modelling static and dynamic monitoring non destructive techniques for on site investigation seismic behaviour rehabilitation traditional and innovative repair techniques and case studies A special focus has been put on six specific themes Innovation and heritage Preventive conservation Computational strategies for heritage structures Sustainable strengthening of masonry with composites Values and sustainability and Subsoil interaction The knowledge insights and ideas in Structural Analysis of Historical Constructions Anamnesis diagnosis therapy controls make this book of abstracts and the corresponding digital full colour conference proceedings containing the full papers must have literature for researchers and practitioners involved in the structural analysis of historical constructions *Handbook for Blast Resistant Design of Buildings* Donald O. Dusenberry, 2010-01-26 Unique single reference supports functional and cost efficient designs of blast resistant buildings Now there s a single reference to which architects designers and engineers can turn for guidance on all the key elements of the design of blast resistant buildings that satisfy the new ASCE Standard for Blast Protection of Buildings as well as other ASCE ACI and AISC codes The Handbook for Blast Resistant Design of Buildings features contributions from some of the most knowledgeable and experienced consultants and researchers in blast resistant design This handbook is organized into four parts Part 1 Design Considerations sets forth basic principles examining general considerations in the design process risk analysis and reduction criteria for acceptable performance materials performance under the extraordinary blast environment and performance verification for technologies and solution methodologies Part 2 Blast Phenomena and Loading describes the explosion environment loading functions needed for blast response analysis and fragmentation and associated methods for effects analysis Part 3 System Analysis and Design explains the analysis and design considerations for structural building envelope component space site perimeter and building system designs Part 4 Blast Resistant Detailing addresses the use of concrete steel and masonry in new designs as well as retrofitting existing structures As the demand for blast resistant buildings continues to grow readers can turn to the Handbook for Blast Resistant Design of Buildings a unique single source of information to support competent functional and cost efficient designs Principles of Structural Design Ram S. Gupta, 2011-07-01 Anyone involved with structural design whether a student or a practicing engineer must maintain a functional understanding of wood steel and concrete design principles In covering all of these materials Principles of Structural Design Wood Steel and Concrete fills a gap that exists in the instructional resources It provides a self contained authoritative source that elaborates on the most recent practices together with the code connected fundamentals that other books often take for granted Dr Ram Gupta a professional engineer provides readers with insights garnered over a highly active 40 year international career Organized for ready reference the book is divided into four main sections Part I covers loads load combinations and specific code requirements for different types of loads It elaborates on the LRFD load resistance factor design philosophy and the unified approach to design Part II covers sawn lumber structural glued laminated timber

and structural composite lumber It reviews tension compression and bending members as well as the effects of column and beam stabilities and combined forces Part III considers the steel design of individual tension compression and bending members Additionally it provides designs for braced and unbraced frames Open web steel joists and joist girders are included here as they form a common type of flooring system for steel frame buildings Part IV analyzes the design of reinforced beams and slabs shear and torsion compression and combined compression and flexure in relation to basic concrete structures This textbook presents the LRFD approach for designing structural elements according to the latest codes Written for architecture and construction management majors it is equally suitable for civil and structural engineers

Semi-rigid Connections Handbook Wai-Fah Chen, 2011 A practical and accessible introduction to the implementation of partially restrained connections in engineering practice

Simplified LRFD Bridge Design Jai B. Kim, Robert H. Kim, Jonathan Eberle, 2013-04-08 Helping readers prepare for the civil and structural PE exam this book presents numerous design examples that serve as a comprehensive step by step guide to basic bridge design using the AASHTO LRFD Bridge Design Specifications Fifth Edition It offers a simplified explanation of load resistance factor design LRFD method based bridge design principles and lists the AASHTO reference section numbers alongside formulas and where topics are introduced to refer the reader to the primary source material This is a valuable reference for civil engineering students as well as for practicing engineers

Unified Design of Steel Structures Louis F. Geschwindner, 2011-12-20 Geschwindner's 2nd edition of Unified Design of Steel Structures provides an understanding that structural analysis and design are two integrated processes as well as the necessary skills and knowledge in investigating designing and detailing steel structures utilizing the latest design methods according to the AISC Code The goal is to prepare readers to work in design offices as designers and in the field as inspectors This new edition is compatible with the 2011 AISC code as well as marginal references to the AISC manual for design examples and illustrations which was seen as a real advantage by the survey respondents Furthermore new sections have been added on Direct Analysis Torsional and flexural torsional buckling of columns Filled HSS columns and Composite column interaction More real world examples are included in addition to new use of three dimensional illustrations in the book and in the image gallery an increased number of homework problems and media approach Solutions Manual Image Gallery

Architectural Detailing Edward Allen, Patrick Rand, 2012-06-29 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 **Concrete Construction Engineering Handbook** Edward G. Nawy, 2008-06-24 The Concrete Construction Engineering Handbook Second Edition provides in depth coverage of concrete construction engineering and technology It features state of the art discussions on what design engineers and constructors need to know about concrete focusing on The latest advances in engineered concrete materials Reinforced concrete construction Specialized construction techniques Design recommendations for high performance With the newly revised edition of this essential handbook designers constructors educators and field personnel will learn how to produce the best and most durably engineered constructed facilities **Performance of Seismic Isolation Hardware Under Service and Seismic Loading** Michalakis C. Constantinou, 2007 Fire and Life Safety Inspection Manual Robert J. Solomon, 2012

Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures George Deodatis, Bruce R. Ellingwood, Dan M. Frangopol, 2014-02-10 Safety Reliability Risk and Life Cycle Performance of Structures and Infrastructures contains the plenary lectures and papers presented at the 11th International Conference on STRUCTURAL SAFETY AND RELIABILITY ICOSAR2013 New York NY USA 16 20 June 2013 This set of a book of abstracts and searchable full paper USB device is must have literature for researchers and practitioners involved with safety reliability risk and life cycle performance of structures and infrastructures **Fire and Life Safety Inspection Manual** Robert E. Solomon, 2012

The Fire and Life Safety Inspection Manual Ninth Edition is the most up to date inspection reference manual for those interested in fire protection fire safety and life safety inspections It provides step by step guidance through the complete fire inspection process with special emphasis on life safety considerations This text identifies dangerous and hazardous conditions that could be encountered in a structure and spells out the chief areas the inspector should be focused on during an inspection Inspectors should use the Fire and Life Safety Inspection Manual Ninth Edition to identify existing deficiencies imminently dangerous conditions or a fault in a procedure or protocol that may result in a fire Six new chapters have been added to make sure fire inspectors have the knowledge and resources available to effectively conduct all types of fire inspections These new chapters include Chapter 5 Certification and Training for Inspectors Chapter 6 Green Technologies and the Inspector Chapter 24 Commissioning Process for Fire Protection Systems Chapter 25 Accessibility Provisions Chapter 26 Grass Brush and Forest Fire Hazards Chapter 27 Tunnels More than three hundred codes and standards form the basis for the criteria recommendations and requirements that are found throughout the text Early chapters provide important background information while the second half presents inspection guidelines for specific fire protection systems and occupancies that are based on the Life Safety Code R This text is packaged with an access code that provides free access to easy to follow checklists to help you remember and record every important detail Whether you re just starting your career as a fire inspector or ready to brush up on the basics the Fire and Life Safety Inspection Manual Ninth Edition has the

reliable inspection advice you need *Recent Developments in Structural Engineering, Volume 1* Manmohan Dass Goel,Ratnesh Kumar,Sangeeta S. Gadve,2024-05-02 The book presents the select proceedings of 13th Structural Engineering Convention It covers the latest research in multidisciplinary areas within structural engineering Various topics covered include structural dynamics structural mechanics finite element methods structural vibration control advanced cementitious and composite materials bridge engineering soil structure interaction blast impact fire material and many more The book will be a useful reference material for structural engineering researchers and practicing engineers Tall Building Design Bungale S. Taranath,2016-10-04 Addresses the Question Frequently Proposed to the Designer by Architects Can We Do This Offering guidance on how to use code based procedures while at the same time providing an understanding of why provisions are necessary Tall Building Design Steel Concrete and Composite Systems methodically explores the structural behavior of steel concrete and composite members and systems This text establishes the notion that design is a creative process and not just an execution of framing proposals It cultivates imaginative approaches by presenting examples specifically related to essential building codes and standards Tying together precision and accuracy it also bridges the gap between two design approaches one based on initiative skill and the other based on computer skill The book explains loads and load combinations typically used in building design explores methods for determining design wind loads using the provisions of ASCE 7 10 and examines wind tunnel procedures It defines conceptual seismic design as the avoidance or minimization of problems created by the effects of seismic excitation It introduces the concept of performance based design PBD It also addresses serviceability considerations prediction of tall building motions damping devices seismic isolation blast resistant design and progressive collapse The final chapters explain gravity and lateral systems for steel concrete and composite buildings The Book Also Considers Preliminary analysis and design techniques The structural rehabilitation of seismically vulnerable steel and concrete buildings Design differences between code sponsored approaches The concept of ductility trade off for strength Tall Building Design Steel Concrete and Composite Systems is a structural design guide and reference for practicing engineers and educators as well as recent graduates entering the structural engineering profession This text examines all major concrete steel and composite building systems and uses the most up to date building codes Applications of Fire Engineering Martin Gillie,Yong Wang,2017-09-06 This book holds the proceedings of the Conference on Applications of Structural Fire Engineering ASFE 2017 held on September 7 8 2017 in Manchester UK The ASFE 17 conference will be the next in a series 2009 2011 2013 2015 of successful conferences that aim to bring together experts and specialists in design against fire from all over the world to share ideas and to acquire knowledge in the field of structural fire engineering Practice in structural engineering increasingly accepts the benefits of performancebased approaches to the design of structures for fire resistance This conference will focus on the application of design methods both manual and computational for structures to resist fire Particularly relevant themes will be fire modelling simulation of the heat transfer between fire and structures

and modelling of structural behaviour at elevated temperatures using numerical methods or software implementations of design codes Guide to Stability Design Criteria for Metal Structures Ronald D. Ziemian, 2010-02-08 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 *Research and Applications in Structural Engineering, Mechanics and Computation* Alphose Zingoni, 2013-08-15 Research and Applications in Structural Engineering Mechanics and Computation contains the Proceedings of the Fifth International Conference on Structural Engineering Mechanics and Computation SEMC 2013 Cape Town South Africa 2 4 September 2013 Over 420 papers are featured Many topics are covered but the contributions may be seen to fall

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