

Structural Steel Terms Layout And Fabrication Of Steel

This book details the basic concepts and the design rules included in Eurocode 3 "Design of steel structures" Part 1-8 "Design of joints". Joints in composite construction are also addressed through references to Eurocode 4 "Design of composite steel and concrete structures" Part 1-1 "General rules and rules for buildings". Moreover, the relevant UK National Annexes are also taken into account. Attention has to be duly paid to the joints when designing a steel or composite structure, in terms of the global safety of the construction, and also in terms of the overall cost, including fabrication, transportation and erection. Therefore, in this book, the design of the joints themselves is widely detailed, and aspects of selection of joint configuration and integration of the joints into the analysis and the design process of the whole construction are also fully covered. Connections using mechanical fasteners, welded connections, simple joints, moment-resisting joints and lattice girder joints are considered. Various joint configurations are treated, including beam-to-column, beam-to-beam,

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column bases, and beam and column splice configurations, under different loading situations (axial forces, shear forces, bending moments and their combinations). The book also briefly summarises the available knowledge relating to the application of the Eurocode rules to joints under fire, fatigue, earthquake, etc., and also to joints in a structure subjected to exceptional loadings, where the risk of progressive collapse has to be mitigated. Finally, there are some worked examples, plus references to already published examples and to design tools, which will provide practical help to practitioners.

Traditionally, engineers have used laboratory testing to investigate the behavior of metal structures and systems. These numerical models must be carefully developed, calibrated and validated against the available physical test results. They are commonly complex and very expensive. From concept to assembly, Finite Element Analysis and Design of Metal Structures provides civil and structural engineers with the concepts and procedures needed to build accurate numerical models without using expensive laboratory testing methods. Professionals and researchers will find Finite Element Analysis and Design of Metal Structures a valuable guide to finite elements in terms of its applications. Presents design

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examples for metal tubular connections Simplified review for general steps of finite element analysis Commonly used linear and nonlinear analyses in finite element modeling Realistic examples of concepts and procedures for Finite Element Analysis and Design

Structural Steel Design to Eurocode 3 and AISC Specifications deals with the theory and practical applications of structural steel design in Europe and the USA. The book covers appropriate theoretical and background information, followed by a more design-oriented coverage focusing on European and United States specifications and practices, allowing the reader to directly compare the approaches and results of both codes. Chapters follow a general plan, covering:

- ? A general section covering the relevant topics for the chapter, based on classical theory and recent research developments
- ? A detailed section covering design and detailing to Eurocode 3 specification
- ? A detailed section covering design and detailing to AISC specifications

Fully worked examples are using both codes are presented. With construction companies working in increasingly international environments, engineers are more and more likely to encounter both codes. Written for design engineers and students of civil and structural engineering, this book will help both groups to become

conversant with both code systems.

Design of Joints in Steel and Composite Structures

A Collection of Water Resources and Related Terms for Use in Indexing
Technical Information

Steelworker 3 & 2

Eurocode 3: Design of Steel Structures. Part 1-8 Design of Joints. Eurocode
4: Design of Composite Steel and Concrete Structures. Part 1-8 Design of
Joints

Finite Element Analysis and Design of Metal Structures

Originally published in 1926 [i.e. 1927] under title: Steel
construction; title of 8th ed.: Manual of steel construction.

This book details the basic concepts and the design rules included in
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Joints in composite construction are also addressed through references
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methods; the models and methods of structural analysis in combination with the structural imperfections and the cross-section classification according to compactness; the cross-section resistances when subjected to axial and shear forces, bending or torsional moments and to combinations of the above; component design and more specifically the design of components sensitive to instability phenomena, such as flexural, torsional and lateral-torsional buckling (a section is devoted to composite beams); the design of connections and joints executed by bolting or welding, including beam to column connections in frame structures; and alternative configurations to be considered during the conceptual design phase for various types of single or multi-storey buildings, and the design of crane supporting beams. In addition, the fabrication and erection procedures, as well as the related quality requirements and the quality control methods are extensively discussed (including the procedures for bolting, welding and surface protection). The book is supplemented by more than fifty numerical examples that explain in detail the appropriate procedures to deal with each particular problem in the design of steel structures in accordance with Eurocodes. The book is an ideal learning resource for students of structural engineering, as well as a valuable reference for practicing engineers who perform designs on basis of Eurocodes.

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Steelworker, Volume 2, Training Manual (TRAMAN), November 1996

Thesaurus of Engineering and Scientific Terms

Steel Design 1: Structural Basics

Structural Steel Design

Design of Joints in Steel Structures

□ABOUT THE BOOK: In the Seventh Edition of the book, the Author has revised the complete text of the book in S.I. Units Practically. The diagrams for the standard train of railway and highway bridge loads have been retained in metric units. The design of light gauge steel structural members in general building construction has been revised as per code of IS: 801-1975. The various expressions for the determination of effective width of elements and for the allowable design stresses and other have been given in S.I. Units along with the respective expressions in metric units for the purpose authenticity. The illustrative examples for the analysis of multistory buildings subjected to lateral loads have been by given free body diagrams for the members and joints for the internal forces.

□RECOMMENDATIONS: A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations For Degree,

Diploma and A.I.M.E. Students and Practicing Civil Engineers □**ABOUT THE AUTHOR: Dr. Ram Chandra B.E., M.E. (Hons.), M.I.E., Ph.D. (Roorkee) , MIE Professor and Head Department of Structural Engineering M.B.M. Engineering College University of Jodhpur, Jodhpur (Rajasthan)** □**BOOK DETAILS: ISBN: 978-81-89401-41-2 PAGES: 893+26 PAPERBACK EDITION:19th,Year-2016 SIZE (cms): L-24.5 B-15.9 H-3.4** □**For more Offers visit our Website: www.standardbookhouse.com**

□**ABOUT THE BOOK: In the subsequent editions of this book, since first edition published in until now, the author enhanced the text by adding useful matter, fresh topic such as column formulae for axial stress in compression, design of built-up and perforated cover plate columns, modified and adjusted interaction formulas, equivalent axial load method of design of eccentrically loaded columns, approximate method of design of combined footing, graphical method of curtailment of flange plates, corrugated aluminium sheets used for roof covering and several examples. The author also added further text of design of high strength friction grip bolts. The eleventh edition of the book itself is a fourth edition in S.I. system of units (viz., system**

**international d' unites) and revised, rewritten and updated as per the latest code (viz., 'Code of Practice for General Construction in Steel. IS : 800-1984) incorporating the revision of permissible stresses, effective length of the columns with idealized support conditions and columns in framed structures and Merchant Rankine formula for the allowable stresses. The concept of shear lag, design of semi-rigid connections, their behavior (linear and nonlinear) and methods of analysis have also been included. The abbreviated symbols for Rolled Steel Sections as recommended in IS: 808-1989 have been used throughout the text of the book. Various definitions relating to the new and rational concept of Wind-Load as per IS: 875 (Part III)-1987 have been given in Chapter 2. Accordingly Chapter 9 (viz. Design of Roof Trusses) has been completely revised and determination of wind load has been thoroughly described and illustrated. Author expresses his sincere thanks to his colleagues, members of staff in various engineering colleges and students for appreciating the efforts made by them. Author shall welcome the suggestions from the readers for the further improvement of the book in forthcoming editions. August 2013
Dr. Ram Chandra Jodhpur □ **OUTSTANDING FEATURES:** -Each topic**

introduced is thoroughly described. -This book is completely written in SI system of units. -The text of this subject has been introduced, presented and described in a sequence most naturally desired and appealed to the students. -A number of design examples have been given in each chapter to illustrate the theory and practice unsolved design problems have also been given in each chapter. -The diagrams illustrates distinctly the detailing of connections. -This book follows current design practice. □RECOMMENDATIONS: A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations In S.I. Units Also For Degree, Diploma and A.I.M.E. (India) Students and Practicing Civil Engineers. □ABOUT THE AUTHOR: Dr. Ram Chandra B.E., M.E. (Hons.), M.I.E., Ph.D. (Roorkee) Professor and Head Department of Structural Engineering Faculty of Engineering M.B.M. Engineering College University of Jodhpur, Jodhpur □BOOK DETAILS: ISBN:978-81-89401-40-5 PAGES: 913+24 EDITION: 19th,Year-2020 SIZE: L23.9 B-15.9 H-3.3 □PUBLISHED BY: STANDARD BOOK HOUSE Since 1960 Unit of Rajsons Publications Pvt Ltd Regd Office: 4262/3A Ground Floor Ansari Road Daryaganj New Delhi-110002 +91 011 43551185/43551085/43751128/23250212 Retail

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DRAFTING AND DESIGN FOR ARCHITECTURE AND CONSTRUCTION, 9th edition presents architectural drafting and design concepts as practiced by professional architects. With an emphasis on environmental safety, protective measures, expanded coverage of construction design and drawings and chapter objectives, students are able to hone the necessary skills to create a complete set of drawing plans. Abundant appendices provide important reference material, career information, mathematical calculations, standard abbreviations and synonyms. Exciting new material on design principles and procedures along with new entries on smart homes, smart growth, recreational facilities, building information modeling, site planning, ecology, energy conservation, efficiency and sustainability has been added. In addition, Computer-Aided Design (CAD) coverage in an introductory chapter, along with a series of applications throughout, provide examples of how CAD is used to perform specific architectural drafting functions. Important Notice: Media content referenced within

the product description or the product text may not be available in the ebook version.

Handbook of Steel Connection Design and Details

Drafting and Design for Architecture & Construction

Design and Construction of Modern Steel Railway Bridges

Eurocode 3: Design of Steel Structures; Part 1-8 Design of Joints

Thesaurus of Water Resources Terms

Handbook of Steel Connection Design and Details McGraw Hill Professional

This sourcebook reflects advances in standard design specifications and industry practices. The third edition offers access to reliable data on the material properties of steel, with coverage of the trend towards load- resistance-factor design (LRFD) in both bridges and buildings.

This textbook covers the design and analysis of steel structures for buildings according to EN 1990 (Eurocode 0), EN 1991 (Eurocode 1) and EN 1993 (Eurocode 3). Chapter 1 describes the theory and background of EN 1990 in terms of structural safety, reliability and the design values of resistances and actions. Chapter 2 deals with actions and deformations described in EN 1991. The permanent loads and vari-able actions and in particular the imposed loads and the snow loads and wind actions are discussed. This chapter also contains three worked examples to determine the actions on a floor in a residential house, the actions on a free-standing platform canopy at a station and the wind actions on the façades of an office building. Chapter 3 is about modelling, discussing the schematisation of the structural system, the joints and the material properties as well as the cross-section properties. Chapter 4 deals with the classification of

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frames and the various analysis methods for unbraced and braced frames. Chapter 5 then goes deeper into these analysis methods to determine the force distribution and deformations. Chapter 6 deals with the assessment by code-checking of (parts of) the steel structure with EN 1993-1-1 and EN 1993-1-8. At a basic level, the assessment of the resistance of cross-sections, the stability of members under axial forces and the resistance of bolted and welded connections are explained. Chapter 7 discusses in an extensive way the assessment by code-checking of the resistance of cross-sections, both for single and combined internal forces. The principles of the assessment of the resistance of cross-sections according to elastic and plastic theory are also discussed.

Steel Building Design

Worked Examples - Hollow Sections, in Accordance with Eurocodes and the UK National Annexes

International Structural Steel Sections

Design Tables According to Eurocode 3

Metal Work and Metallurgy

Understanding the behavior of structural steel in terms of fabrication and fashioning is an important factor in the designing of steel structures. The search for structural steel with capabilities of acceptable responses in seismic regions alongside beneficial features such as cost, and efficiency has led to the investigation of the behavior of high strength steels

(HSS). These steels have yield strength of 55 ksi (ASTM A572) or higher, as classified by U.S. standards, while their inelastic capacity is less than that of conventional structural steel. The present research investigates the rotation capacity and flexural strength of hybrid high strength web-tapered I-shaped steel beam using an experimentally verified nonlinear finite element modeling technique. The academic multipurpose software package ANSYS19.2 is used to develop a shell finite element model, after the validation using an experimental specimen from a previous study was modeled and validated. The residual stresses are associated with the finite element model for different welding configurations. Geometrical imperfections are applied to conduct a linear eigenvalue analysis and to capture buckling mode shapes to perform a nonlinear buckling analysis. The aim is to capture local, overall, and local-overall interactive buckling modes of non-prismatic hybrid high strength I-sections. A comprehensive parametric study is performed by varying the cross-section dimension, flange and web slenderness ratio, and grade of steel for flange and web to cover a wide range of parameters to identify the correlation between slenderness, ductility, and

member resistance. The results will be used to propose design equations that could be used in the direct computation of desired parameters in the design of web variable hybrid and homogeneous members during structural designing.

Behavior and Design of High-Strength Constructional Steel presents readers with extensive information on the behavior of high-strength constructional steels, providing them with the confidence they need to use them in a safe and economic manner to design and construct steel structures. The book includes detailed discussions on the mechanical properties of HSS while explaining the latest progress in research and design guidelines, including material properties at ambient and elevated temperatures. In addition, the book explains the behavior of elementary members subject to different types of loads and load combinations, and those that are integral to the design of bolted and welded connections. The hysteretic behavior of HSS materials and members are also discussed. This is critical for application and designs under earthquakes and fire conditions. The buckling behaviors of HSS box-section and H-section columns are included in terms of experimental and

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numerical investigations, along with the geometric imperfection induced by welding. Provides a comprehensive review on the topic of high-strength constructional steel and the latest progress in research and design guidelines Explains the behavior of elementary members subjected to different types of loads and load combinations Recommends structural systems for using high-strength constructional steels in seismic zones

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.

Investigation of the Rotation Capacity and Flexural Strength of Web-tapered Hybrid High Strength Steel I-beams

The Seismic Design Handbook

Behaviour, strength and design

Steel Construction Manual

Connections in Steel Structures

For some years now, steel construction has no longer been the reserve of specialists.

To take advantage of all the possibilities offered by the modern steel industry in terms of a good fit of shape and material, the first rough design plays an important part in planning any structure. Tender or offer specifications based on Eurocode 3 will

hopefully open the way to competitiveness using the international reasonable steel market. This book contains a short annotation about steel grades and qualities,

followed by a basic introduction to the European safety concept, 104 tables for all European rolled sections, a selection of British and American sections, hot-rolled and

cold-formed hollow sections as well as tables giving data on dimensions, properties and classification, design resistance, design buckling resistance and design lateral

torsional buckling resistance moment under two different load conditions, based on the

European buckling curves. These tables allow preliminary design, profile selection or a quick safety check of various structural members, so as to avoid time-consuming computer analysis, or to check the plausibility of results so obtained.

This book provides the means for a better control and purposeful consideration of the design of Architecturally Exposed Structural Steel (AESS). It deploys a detailed categorization of AESS and its uses according to design context, building typology and visual exposure. In a rare combination, this approach makes high quality benchmarks compatible with economies in terms of material use, fabrication methods, workforce and cost. Building with exposed steel has become more and more popular worldwide, also as advances in fire safety technology have permitted its use for building tasks under stringent fire regulations. On her background of long standing as a teacher in architectural steel design affiliated with many institutions, the author ranks among the world's best scholars on this topic. Among the fields covered by the extensive approach of this book are the characteristics of the various categories of AESS, the interrelatedness of design, fabrication and erection of the steel structures, issues of coating and protection (including corrosion and fire protection), special materials like weathering steel and stainless steel, the member choices and a connection design checklist. The description draws on many international examples from advanced contemporary architecture, all visited and photographed by the author, among which figure buildings like the Amgen Helix Bridge in Seattle, the Shard Observation Level in London, the New York Times Building and the Arganquela Footbridge.

This book introduces the fundamental design concept of Eurocode 3 for current steel

structures in building construction, and their practical application. Following a discussion of the basis of design, including the principles of reliability management and the limit state approach, the material standards and their use are detailed. The fundamentals of structural analysis and modeling are presented, followed by the design criteria and approaches for various types of structural members. The theoretical basis and checking procedures are closely tied to the Eurocode requirements. The following chapters expand on the principles and applications of elastic and plastic design, each exemplified by the step-by-step design calculation of a braced steel-framed building and an industrial building, respectively. Besides providing the necessary theoretical concepts for a good understanding, this manual intends to be a supporting tool for the use of practicing engineers. In order of this purpose, throughout the book, numerous worked examples are provided, concerning the analysis of steel structures and the design of elements under several types of actions. These examples will facilitate the acceptance of the code and provide for a smooth transition from earlier national codes to the Eurocode.

Design of Steel Structures Vol. II

Catalogue of the Alabama Polytechnic Institute

Behavior and Design of High-Strength Constructional Steel

Comprehensive Design of Steel Structures

Catalogue

This book is intended for classroom teaching in architectural and civil engineering at the graduate and undergraduate levels. Although it has been developed from

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lecture notes given in structural steel design, it can be useful to practicing engineers. Many of the examples presented in this book are drawn from the field of design of structures. Design of Steel Structures can be used for one or two semesters of three hours each on the undergraduate level. For a two-semester curriculum, Chapters 1 through 8 can be used during the first semester. Heavy emphasis should be placed on Chapters 1 through 5, giving the student a brief exposure to the consideration of wind and earthquakes in the design of buildings. With the new federal requirements vis a vis wind and earthquake hazards, it is beneficial to the student to have some understanding of the underlying concepts in this field. In addition to the class lectures, the instructor should require the student to submit a term project that includes the complete structural design of a multi-story building using standard design procedures as specified by AISC Specifications. Thus, the use of the AISC Steel Construction Manual is a must in teaching this course. In the second semester, Chapters 9 through 13 should be covered. At the undergraduate level, Chapters 11 through 13 should be used on a limited basis, leaving the student more time to concentrate on composite construction and built-up girders.

The Definitive Guide to Steel Connection Design Fully updated with the latest AISC and ICC codes and specifications, Handbook of Structural Steel Connection Design and Details, Second Edition, is the most comprehensive resource on load and

resistance factor design (LRFD) available. This authoritative volume surveys the leading methods for connecting structural steel components, covering state-of-the-art techniques and materials, and includes new information on welding and connections. Hundreds of detailed examples, photographs, and illustrations are found throughout this practical handbook. Handbook of Structural Steel Connection Design and Details, Second Edition, covers: Fasteners and welds for structural connections Connections for axial, moment, and shear forces Welded joint design and production Splices, columns, and truss chords Partially restrained connections Seismic design Structural steel details Connection design for special structures Inspection and quality control Steel deck connections Connection to composite members

Structural Steel Design, Third Edition is a simple, practical, and concise guide to structural steel design – using the Load and Resistance Factor Design (LRFD) and the Allowable Strength Design (ASD) methods -- that equips the reader with the necessary skills for designing real-world structures. Civil, structural, and architectural engineering students intending to pursue careers in structural design and consulting engineering, and practicing structural engineers will find the text useful because of the holistic, project-based learning approach that bridges the gap between engineering education and professional practice. The design of each building component is presented in a way such that the reader can see how each

element fits into the entire building design and construction process. Structural details and practical example exercises that realistically mirror what obtains in professional design practice are presented. Features: - Includes updated content/example exercises that conform to the current codes (ASCE 7, ANSI/AISC 360-16, and IBC) - Adds coverage to ASD and examples with ASD to parallel those that are done LRFD - Follows a holistic approach to structural steel design that considers the design of individual steel framing members in the context of a complete structure.

Design Of Steel Structures (By Limit State Method As Per Is: 800 2007)

Eurocode 3: Design of Steel Structures, Part 1-1: General Rules and Rules for Buildings

Structural Steel Design to Eurocode 3 and AISC Specifications

Architecturally Exposed Structural Steel

Unified Design of Steel Structures

Vols. for 1877- include: President's report.

Structural Steel Design to Eurocode 3 and AISC Specifications deals with the theory and practical applications of structural steel design in Europe and the USA. The book covers appropriate theoretical and background information, followed by a more design-oriented coverage focusing on European and United States specifications and practices, allowing the reader to directly compare approaches and results of both codes. Chapters follow a general plan, covering:

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developments • A detailed section covering design and detailing to Eurocode 3 specification • detailed section covering design and detailing to AISC specifications Fully worked examples are using both codes are presented. With construction companies working in increasingly international environments, engineers are more and more likely to encounter both codes. Written for design engineers and students of civil and structural engineering, this book will help both groups to be conversant with both code systems.

So far working stress method was used for the design of steel structures. Nowadays whole world is going for the limit state method which is more rational. Indian national code IS:800 for the design of steel structures was revised in the year 2007 incorporating limit state method. This book is designed for training the students in using IS: 800 2007 for designing steel structures by limit state method. The author has explained the provisions of code in simple language and illustrated the design procedure with a large number of problems. It is hoped that all universities will soon adopt design of steel structures as per IS: 2007 and this book will serve as a good textbook. A sincere effort has been made to present design procedure using simple language, neat sketches and solved problems.

Structural Steel Designer's Handbook
Design of Steel Structures to Eurocodes
Specifications, Connections, Details
Theory and Design of Steel Structures

This new edition encompasses current design methods used for steel railway bridges in both SI and Imperial (US Customary) units. It discusses the planning of railway bridges and the appropriate types of bridges based on planning considerations.

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A straightforward overview of the fundamentals of steel structure design This hands-on structural engineering guide provides concise, easy-to-understand explanations of the design and behavior of steel columns, beams, members, and connections. Ideal for preparing you for the field, Design of Steel Structures includes real-world examples that demonstrate practical applications of AISC 360 specifications. You will get an introduction to more advanced topics, including connections, composite members, plate girders, and torsion. This textbook also includes access to companion online videos that help connect theory to practice. Coverage includes: Structural systems and elements Design considerations Tension members Design of columns AISC design requirements Design of beams Torsion Stress analysis and design considerations Beam-columns Connections Plate girders Intermediate transverse and bearing stiffeners

VOLUME 2 Metal Work Volume 2, consists of chapters on the following subjects: Layout and Fabrication of Sheet Metal and Fiber-Glass Duct; Structural Steel Terms/Layout and Fabrication of Structural Steel and Pipe; Fiber Line; Wire Rope; Rigging; Reinforcing Steel; Pre-engineered Structures: Buildings, KSpans, Towers, and Antennas; Pre-engineered Storage Tanks; Pontoons; pre-engineered Structures: Steelworker Tools and Equipment.
Design of Steel Structures

This book on Design of Steel Structures uses Limit State Method and

follows the latest BIS Codes, BIS: 800: 2007. A perfect mix of concise theory with relevant applications and inclusion of most recent design methodologies makes this an excellent offering to students and practicing engineers.

This book is the Proceedings of a State-of-the-Art Workshop on Connections and the Behaviour, Strength and Design of Steel Structures held at Laboratoire de Mecanique et Technologie, Ecole Normale, Cachan France from 25th to 27th May 1987. It contains the papers presented at the above proceedings and is split into eight main sections covering: Local Analysis of Joints, Mathematical Models, Classification, Frame Analysis, Frame Stability and Simplified Methods, Design Requirements, Data Base Organisation, Research and Development Needs. With papers from 50 international contributors this text will provide essential reading for all those involved with steel structures.