

Lattice Beam For Flat Roof

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Architects' Data - Ernst Neufert 2012-03-26

Neufert's Architects' Data is an essential reference for the initial design and planning of a building project. It provides, in one concise volume, the core information needed to form the framework for the more detailed design and planning of any building project. Organised largely by building type, it covers the full range of preliminary considerations, and with over 6200 diagrams it provides a mass of data on spatial requirements. Most illustrations are dimensioned and each building type includes plans, sections, site layouts and design details. An extensive bibliography and a detailed set of metric/ imperial conversion tables are included. Since it was first published in Germany in 1936, Ernst Neufert's handbook has been progressively revised and updated through 39 editions and many translations. This fourth English language edition is translated from the 39th German edition, and represents a major new edition for an international, English speaking readership. Reviews of the Previous Edition: "Neufert's Architects' Data was the first book I bought when I started my studies in architecture. It was invaluable for me then and it is still a useful aid in my designs." —Cesar Pelli "With this thorough rewrite Neufert has produced yet again an invaluable reference book." —The Architects' Journal

Structural Analysis of Historic Buildings - J. Stanley Rabun 2000-02-21

Structural Analysis of Historic Buildings offers the most' complete, detailed, and authentic data available on the materials, calculation methods, and design techniques used by architects and engineers of the nineteenth and early twentieth centuries. It provides today's building professionals with information needed to analyze, modify, and certify historic buildings for modern use. Among the many important features of this book not available in any other single volume are: * More than 350 line drawings and diagrams taken directly from original sources such as the Carnegie Steele Company's Pocket Companion (1893) and Frank Kidder's The Architect's and Builder's Pocketbook (1902) * Hard-to-find data on period structural components, such as cast-iron columns and beams, wrought-iron columns and beams, and fireproof terra cotta floor arches * Methods for determining what kind of loads structural components were originally designed to bear and methods to determine if they are still capable of performing as intended * Extensive coverage of historical foundation systems and empirical design methods for load-bearing masonry buildings For any building professional involved in the rapidly growing field of restoring, preserving, and adapting historic buildings, Structural Analysis of Historic Buildings is an invaluable structural handbook.

Structural Steelwork - A.B. Clarke 1987-08-20

A comprehensive reference which provides the student and the engineer with in-depth guidance on design methods to the UK code of practice for structural steelwork, BS 5950. The design procedures are presented in a series of well-defined steps illustrated with worked examples.

Flat Roof Manual - Bickerdike Allen Partners 1985

Planar Trusses - Mikhail Kirsanov 2019-06-10

This text contains 73 schemes of statically definable trusses, including girder trusses, frames and arched trusses, solutions for many of which have not been widely published. Among these, it is possible to separately distinguish trusses with externally hidden but dangerous properties. The book will appeal to

both practical engineers and theorists of structural mechanics. It provides a number of compact and easily reproducible formulas that can be used both as a test and as reliable additions to numerical calculations. These formulas are especially effective for trusses with a large number of panels, where numerical calculations are either inaccurate or require considerable counting time.

Sheet Metal Industries - 1975

Trussed Frames and Arches - Mikhail Kirsanov 2020-10-06

This book contains 72 schemes of statically determinate trusses, detailing the analytical dependencies of the deflection on the loads, dimensions and the number of panels for each of them. It specifically focuses on cantilever trusses, frames and arched trusses, among which it is possible to separately distinguish trusses with externally hidden dangerous properties. The book is intended both for practical engineers and for theorists of structural mechanics. The compact and easily reproducible formulas provided here can be used as a test and reliable addition to numerical calculations. These formulas are especially effective for trusses with a large number of panels, where numerical calculations either give inaccuracies or require considerable counting time. Schemes that allow instantaneous variability will warn the practical engineer about an error at the design stage when choosing the number of truss panels.

Civil Engineering Construction Design and Management - Dene Warren 1996-11-11

A textbook for HNC/HND students of civil engineering. Covers contract administration, control and programming, safety, ground water control, excavation, foundations, retaining walls and deep basements, superstructures and road pavements.

Building Construction Handbook - R. Chudley 2010

Building Construction Handbook is an authoritative reference for all students and professionals. It is full of detailed drawings that clearly illustrate the construction of building elements. The principles and processes of construction are explained with the concepts of design included where appropriate. Extensive coverage of building construction practice and techniques, representing both traditional procedures and modern developments, are also included to provide the most comprehensive and easy to understand guide to building construction. The new edition has been reviewed and updated to include further material on energy conservation, sustainable construction, environmental and green building issues. More details of fire protection to elements of construction are now provided. Comprehensive coverage of techniques, but not in too great a depth Many clear, effective diagrams express ideas visually. Regularly updated text with a strong track record

Design and Analysis of Cold-formed Sections - A. C. Walker 1975

Construction Technology - Tony Bryan 2015-09-14

The second edition of Construction Technology: Analysis and Choice has been expanded to include commercial buildings. This now covers, in a single textbook, all the basic forms of construction studied on professional courses. The book takes as its theme the process of choice: what the expert has to know and how he/she might think through the decisions to be made about the design, production, maintenance and

disposal of buildings. It is written with the conviction that by focusing on the process of choice, the range of theory and knowledge that is useful to practice becomes explicit, making the link between knowledge and practice, and between understanding and experience. The new edition has been updated throughout with extensive additions to Chapter 13: Manufacture and Assembly and to Chapter 15: Sustainability. An entire new section has been added, covering all the main elements of commercial construction. Students will find here explanations of how environments, structural behaviour, production know-how, cost and social concerns such as sustainability can be taken into account in the choice of construction. They will also gain a clear understanding of the construction details and specifications adopted for both housing and commercial buildings in the UK at the beginning of the 21st century. Provides a framework to think through proposed solutions Sets the choice of solution in both time and place, and in the context of sustainability Focuses on key questions: will the proposal fail; and can it be built? Considers a building's response to loading, environmental conditions and time Looks at the production process as manufacture and assembly Book website at www.wiley.com/go/bryanconstructiontech2e Contains nearly 200 fully referenced, clear line drawings to download for free, as well as suggested learning activities for lecturers to incorporate into their teaching programmes.

Catholic Churches of London - Denis Evinson 1998-01-01

In this comprehensive survey of London's Catholic churches, Dr Evinson's inventory lists all 140 churches in the cities of London, Westminster and the inner surrounding boroughs. In each case the entries include the foundation of the mission, the building history of the church, the role of the clergy and lay patrons, an architectural description and an account of the church's permanent furnishings. A substantial introduction treats the subject in chronological terms, embracing the period of Catholic emancipation followed by the Gothic, Classical, Byzantine and Romanesque revivals. Post-1945 developments in structure and planning are also explored, followed by a survey of furnishings and artists. This book should appeal to Catholic Londoners and parish priests, as well as art historians and tourists.

Fachwörterbuch Architektur und Bauwesen - Wolfgang Hagemann 2018-04-19

This two-way bilingual dictionary is an exhaustive compilation containing some 50,000 entries of German and English terms deriving from the Eurocodes and the German construction contract procedures (VOB) as well as other terminology more or less closely associated with building and civil engineering. The dictionary also covers the following main subject areas: Tendering and contracting, construction law, land law // Structural design // Urban and regional planning // Hydraulic structures // Architecture (modern and historical) // Geodesy // Geotechnics // Bridge construction // cranes // welding // Energy efficiency of buildings // Traffic control systems. The dictionary is intended to serve the needs of a wide range of users including participants in invitations to tender for building work, contractors, civil engineers, architects, consulting engineers, and technical translators working in the field of building and civil engineering.

Mitchell's Structure & Fabric - J S Foster 2013-11-19

Structure and Fabric Part 2 consolidates and develops the construction principles introduced in Part 1. With generous use of illustrations this book provides a thorough treatment of the techniques used in the construction of various types of building. This new edition has been thoroughly reviewed and updated with reference to recent changes in building regulations, national and European standards and related research papers. The comprehensive presentation provides guidance on established and current practice, including the administrative procedures necessary for the construction of buildings.

Roof Construction Manual - Eberhard Schunck 2013-01-21

The Roof Construction Manual is a comprehensive reference work on the construction of pitched roofs, containing over 1800 plans and 220 photographs. Thirteen fundamental roof types and the relevant materials including thatch, wood, slate, tile, concrete, fibrous cement, bitumen, glass, metal, membranes, and synthetic materials are documented in detail. Essential topics such as ventilation, vapour and wind seals, insulation and drainage, renovation and energy conservation are examined. As with all the Construction Manuals, some 38 built examples illustrate the theoretical details, paying particular attention to important features such as the ridge, hip, eaves, roof valley, verge, and penetration. A compact presentation of the load-bearing physics and structures as well as current norms and standards make this volume an indispensable standard work for all architects and engineers.

Masted Structures in Architecture - James Harris 2012-09-10

This is the first fully comprehensive survey and analysis of masted structures and covers examples that have evolved during the past three decades. Masted Structures are one of the most interesting developments in post-war architecture resulting from a combination of technology, structural engineering theory and a collaboration between architects and engineers. This is an essential guide for architects to the structural and constructional implications of masted forms in relation to space enclosure, patterns of loading and use of differing materials and techniques. This useful volume will enable architects and engineers to understand the origins, development and nature of masted structures and will provide a stimulating basis for future design.

Structure and Fabric - Jack Stroud Foster 2007

This book provides a complete and thorough treatment of the principles and techniques used in the construction of a building. It covers foundations, walls and piers, roof and floor structures, chimneys, stairs and much more.

Structural Steel Design - Peter Reginald Knowles 1988

This textbook (sponsored by the British Steel Corporation) covers the history, production, design and use of steel as a structural material, giving background necessary for an understanding of practical design requirements. It treats metallurgy, fabrication, erection, fire and corrosion. Annotation copyrighted by Book News, Inc., Portland, OR

Steel Structures - Hassan Al Nageim 2017-12-21

The third edition of this popular book now contains references to both Eurocodes and British Standards, as well as new and revised examples, and sections on sustainability, composite columns and local buckling. Initial chapters cover the essentials of structural engineering and structural steel design, whilst the remainder of the book is dedicated to a detailed examination of the analysis and design of selected types of structures, presenting complex designs in an understandable and user-friendly way. These structures include a range of single and multi-storey buildings, floor systems and wide-span buildings. Emphasis is placed on practical design with a view to helping undergraduate students and newly qualified engineers bridge the gap between academic study and work in the design office. Experienced engineers who need a refresher course on up-to-date methods of design and analysis will also find the book useful.

Flat Roof Construction Manual - Klaus Sedlbauer 2012-12-17

often described as the "fifth façade", the flat roof is extremely popular with architects. Its essential task is to shelter the space beneath it from the elements. Beyond this, the use of flat roofs may be optimized by integrating them as green roofs, roof terraces, circulation areas, and even productive solar roofs. In practice, however, their correct and professional realization is a highly exacting task: in addition to providing the planner with basic rules of construction and design, the Flat Roof Manual also supplies an overview of the use and construction types as well as the standard assemblies for flat roofs. Together with the most important standards and bodies of regulations, construction drawings of the principal connection points round out the volume.

Constructing Architecture - Andrea Deplazes 2005-07-25

Now in its second edition: the trailblazing introduction and textbook on construction includes a new section on translucent materials and an article on the use of glass.

Dictionary of Architecture and Building Construction - Nikolas Davies 2008-06-19

With more than 20,000 words and terms individually defined, the Dictionary offers huge coverage for anyone studying or working in architecture, construction or any of the built environment fields. The innovative and detailed cross-referencing system allows readers to track down elusive definitions from general subject headings. Starting from only the vaguest idea of the word required, a reader can quickly track down precisely the term they are looking for. The book is illustrated with stunning drawings that provide a visual as well as a textual definition of both key concepts and subtle differences in meaning. Davies and Jokiniemi's work sets a new standard for reference books for all those interested in the buildings that surround us. To browse the book and to see how this title is an invaluable resource for both students and professionals alike, visit www.architectsdictionary.com.

Steel Structures - T.J. MacGinley 2002-12-24

The second edition of this well-known book provides a series of practical design studies of a range of steel structures. It is extensively revised and contains numerous worked examples, including comparative designs for many structures.

Developments in Artificial Intelligence for Civil and Structural Engineering - B. H. V. Topping 1995
Includes a selection of papers that were presented at the Fourth International Conference on the Application of Artificial Intelligence to Civil and Structural Engineering, which was held at Cambridge, England, from 28-30 August 1995.

Systems in Timber Engineering - Josef Kolb 2008-04-23

An indispensable standard work for everyone involved in building with wood. This work uses plans, schematic drawings, and pictures to show the current and forward-looking state of the technology as applied in Switzerland, a leading country in the field of timber construction.

Construction Technology 2: Industrial and Commercial Building - Mike Riley 2018-02-20

Designed in a structured, directed format to help develop understanding, rather than just providing a simple source of information, this popular undergraduate textbook offers comprehensive coverage of industrial and commercial building technology. It builds on material in the first volume in the series Construction Technology 1: House Construction but it is also valuable as a standalone text. The most student-friendly textbook in the area, it uses a wealth of features to reinforce understanding and test knowledge, including case studies and comparative studies. Case studies include photographs and commentary on specific aspects of the technology of framed buildings, while comparative studies allow the reader to make a critical evaluation, comparing and contrasting design details and solutions. This textbook is aimed at undergraduates in Construction Management, Quantity Surveying and Building Surveying, and HNC/D students in the same areas. It is also ideal for associated Built Environment courses e.g. Land Management, Civil Engineering, where the basic technologies need to be understood. New to this Edition: - Thoroughly revised throughout - New material on sustainable construction incorporated as a key theme in each aspect of technology - A new chapter on building services installations - A new section of the highly topical subject of Building Information Modelling (BIM)

Plant Engineer's Reference Book - DENNIS A SNOW 2001-12-17

A plant engineer is responsible for a wide range of industrial activities, and may work in any industry. The Plant Engineer's Reference Book 2nd Edition is a reference work designed to provide a primary source of information for the plant engineer. Subjects include the selection of a suitable site for a factory and provision of basic facilities, including boilers, electrical systems, water, HVAC systems, pumping systems and floors and finishes. Detailed chapters deal with basic issues such as lubrication, corrosion, energy conservation, maintenance and materials handling as well as environmental considerations, insurance matters and financial concerns. The editor, Dennis Snow, has experience of a wide range of operations in the UK, Europe, the USA, and elsewhere in the world. Produced with the backing of the Institution of Plant Engineers, the Plant Engineer's Reference Book, 2nd Edition provides complete coverage of the information needed by plant engineers in any industry worldwide. Wide range of information will prove to be use to engineers in any industry Covers all the topics necessary to design and develop an engineering plant Will help engineers in industry deal with practical problems in a variety of situations

Support I Materialise - Henning Baurmann 2013-10-25

Designing and constructing load-bearing building elements Columns, walls and floors make up the skeleton of nearly every building. This third volume in the series SCALE, Support| Materialise, takes an in-depth look at these load-bearing structures, covering the development and realization of appropriate constructions from idea and design intention all the way to constructional implementation. Following the traditional building methods of massive, cross-wall, and skeleton construction, it points the way toward a material-appropriate constructional approach to these defining structural elements - columns, walls, and floors. Special attention is given to how constructional and technical considerations can be harmonized with spatial and formal commitments. The load-bearing elements are organized, described, and explored in detail from a material as well as a formal and constructional perspective. Their practical implementation is illustrated by a series of international examples.

Chudley and Greeno's Building Construction Handbook - Roy Chudley 2020-03-31

The 12th edition of Chudley and Greeno's Building Construction Handbook remains THE authoritative reference for all construction students and professionals. The principles and processes of construction are explained with the concepts of design included where appropriate. Extensive coverage of building construction practice, techniques and regulations representing both traditional procedures and modern developments are included to provide the most comprehensive and easy to understand guide to building construction. This new edition has been updated to reflect recent changes to the building regulations, as well as new material on modern methods of construction, greater emphasis on sustainability and a new look interior. Chudley and Greeno's Building Construction Handbook is the essential, easy-to-use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National, through to Higher National Certificate and Diploma, to Foundation and three-year Degree level. It is also a useful practical reference for building designers, contractors and others engaged in the construction industry.

Building Construction Handbook - Roy Chudley 2006-08-14

Building Construction Handbook provides extensive coverage of building construction practice, processes and techniques, representing established procedures as well as those associated with recent amendments to the Building Regulations, British and European Standards and other related references. This approach, combined with the presentation of information in a highly illustrated and unique visual style, has proven this text to be a vital learning resource for thousands of building construction students, and an essential reference for professionals. The sixth edition has been updated and expanded to take into account many aspects of the new and revised Building Regulations and associated Approved Documents as applied to working practice; in particular, construction requirements for conserving and economising energy and reducing atmospheric pollution (as this relates to Building Regulations Part L - Conservation of fuel and power). This new edition also develops existing topics, including adaptation of buildings to ensure compatibility for the disabled, further details of masonry construction, applications of steel reinforcement to concrete, steel framed housing principles, sound insulation and additional details of structural glazing. Throughout, reference to supplementary regulations and standards are provided for further reading, and where appropriate, design calculations are included. Online lecture resources are provided, with power point slides available for a selection of topics, featuring essential illustrations for use with presentations and handouts. The Handbook is an invaluable reference for students. It consolidates several years of study material into one comprehensive volume, suitable for a wide range of building and construction courses, including NVQs in Construction and the Built Environment, BTEC Nationals and Higher Nationals in Building Services Engineering, Construction and Civil Engineering, as well as construction related undergraduate degrees (such as Built Environment, Civil Engineering, Building Surveying, Construction Management, Quantity Surveying, Building, Architectural Technology and Facilities Management) and professional examinations. Roger Greeno is a well-known author of construction texts. He has extensive practical and consultancy experience in the industry, in addition to lecturing at several colleges of further and higher education, and the University of Portsmouth. He has also examined for City & Guilds, Edexcel, the Chartered Institute of Building and the University of Reading. Roy Chudley's books on Building Construction have helped thousands of students gain their qualifications and pass exams. He was formerly a Senior Lecturer at Guildford College.

Dictionary of Building and Civil Engineering - Don Montague 2017-07-14

This French-English and English-French dictionary lists over 20,000 specialist terms, covering architecture, building, civil engineering and property. It is written for all construction professionals working on projects overseas. This new edition has been revised and extended, as well as pruned, and serves as an invaluable reference source in an increasingly European marketplace.

Advanced Construction Technology - Roy Chudley 2006

Advanced Construction Technology offers a comprehensive, practical, illustrative guide to many aspects of construction practice used for industrial and commercial buildings.

Barry's Advanced Construction of Buildings - Stephen Emmitt 2010-02-22

This new edition of Barry's Advanced Construction of Buildings retains the emphasis on larger-scale buildings: primarily residential, commercial and industrial buildings constructed with load bearing frames.

A considerable amount of new material has been added but the text remains faithful to Barry's original concept of explaining construction technology through key functional and performance requirements for the main elements common to all buildings. Of particular note in this new edition is the expanded coverage of building and construction sustainability. This is now presented within the main body of the text, rather than as a separate chapter. Material relating to the Building Regulations has been brought fully up to date, and there is a more thorough treatment of demolition. The rest of the text has been updated as required, with particular attention paid to the illustrations. Advanced undergraduate students and those working towards similar NQF level 5 and 6 qualifications in building and construction will find this the ideal book with which to continue their study of the subject. See the companion website: www.wiley.com/go/barrysintroduction

Plant Engineer's Handbook - R. Keith Mobley 2001-05-14

Plant engineers are responsible for a wide range of industrial activities, and may work in any industry. This means that breadth of knowledge required by such professionals is so wide that previous books addressing plant engineering have either been limited to only certain subjects or cursory in their treatment of topics. The Plant Engineering Handbook offers comprehensive coverage of an enormous range of subjects which are of vital interest to the plant engineer and anyone connected with industrial operations or maintenance. This handbook is packed with indispensable information, from defining just what a Plant Engineer actually does, through selection of a suitable site for a factory and provision of basic facilities (including boilers, electrical systems, water, HVAC systems, pumping systems and floors and finishes) to issues such as lubrication, corrosion, energy conservation, maintenance and materials handling as well as environmental considerations, insurance matters and financial concerns. One of the major features of this volume is its comprehensive treatment of the maintenance management function; in addition to chapters which outline the operation of the various plant equipment there is specialist advice on how to get the most out of that equipment and its operators. This will enable the reader to reap the rewards of more efficient operations, more effective employee contributions and in turn more profitable performance from the plant and the business to which it contributes. The Editor, Keith Mobley and the team of expert contributors, have practiced at the highest levels in leading corporations across the USA, Europe and the rest of the world. Produced in association with Plant Engineering magazine, this book will be a source of information for plant engineers in any industry worldwide. * A Flagship reference work for the Plant Engineering series * Provides comprehensive coverage on an enormous range of subjects vital to plant and industrial engineer * Includes an international perspective including dual units and regulations

Fachwörterbuch Bauwesen / Dictionary Building and Civil Engineering - Uli Gelbrich 2013-03-09

Das "Fachwörterbuch Bauwesen, Deutsch-Englisch" enthält etwa 35.000 Stammformen von Fachtermini aus den Bereichen Architektur und Bauwesen mit den wichtigsten Wortkombinationen und Spezialbegriffen, die in Fachtexten, Zeichnungen, Ausschreibungen und Verträgen vorkommen. Zusammen mit dem "Fachwörterbuch Bauwesen, Deutsch-Englisch", das etwa die gleiche Anzahl von Stichwörtern enthält, leistet dieses Wörterbuch einen wichtigen Beitrag zur Erschließung und zum Austausch von internationalem Fachwissen und ist daher besonders auf internationalen Baustellen ein unentbehrliches

Hilfsmittel.

Barry's Advanced Construction of Buildings - Christopher A. Gorse 2014-03-26

Robin Barry's Construction of Buildings was first published in 1958 in 5 volumes, rapidly becoming a standard text on construction. In its current 2 volume format Barry remains hugely popular with both students and lecturers of construction and related disciplines. The third edition of Barry's Advanced Construction of Buildings expands and deepens your understanding of construction technology. It covers the construction of larger-scale buildings (primarily residential, commercial and industrial) constructed with load bearing frames, supported by chapters on fit-out and second fix, lifts and escalators, off-site construction and a new chapter on building obsolescence and revitalisation. Functional and performance requirements of the main building elements are emphasised throughout, as is building efficiency and meeting the challenges of limiting the environmental impact of buildings. You will find the text fully up to date with the latest building regulations and construction technologies. The new edition, with supporting material at www.wiley.com/go/barrysintroduction, is an ideal information source for developing a wider and deeper understanding of construction technology.

Steel Structures - Thomas Joseph MacGinley 1981

The third edition of this popular book now contains references to both Eurocodes and British Standards. New and revised worked examples are included, and sections on the meaning, the purpose and limits of structural design, sustainable steel building and energy saving have been added. References have been fully updated and include useful website addresses.

Design of Structural Steelwork - P.R. Knowles 2018-10-08

This second edition of Design of Structural Steelwork presents the essential design aspects of steel as a structural material. It has been carefully revised and updated to provide a modern introduction to the subject, assuming only a basic knowledge of structural analysis and solid mechanics.

Construction Technology for Tall Buildings - Michael Yit Lin Chew 1999-01-22

There is a strong need for a comprehensive textbook on construction technology for tall buildings, particularly in reference to land scarce countries and cities in Asia. Containing over 200 illustrations, this book describes in detail the latest construction practices and processes for tall buildings from foundation to roof. The construction sequence of the various proprietary systems and their merits and disadvantages are discussed. Comprehensive references for each topic are also provided. Currently, students and practitioners in the region dealing with construction technology have to rely on textbooks written mainly in the US and UK, many of which are not relevant or not practical for use in the region because of different geological, climatic, social and economic conditions. This book is written for use as a textbook and reference book by undergraduates as well as practitioners in the fields of architecture, civil engineering, building, quantity surveying, and other related fields. Request Inspection Copy

Timber Construction Manual - Thomas Herzog 2004-01-01

Das Nachschlagewerk zur Konstruktion mit Holz und Holzwerkstoffen mit einem ausführlichen Kapitel zum Thema Ökologie, bauphysikalischen Grundlagen mit den Schwerpunkten Wärme-, Schall- und Brandschutz. Im Bereich der Tragwerksplanung spielen die neuen Verbindungsmittel eine wichtige Rolle.