Handbook Of Concrete Engineering Mark Fintel

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FOUNDATION ENGINEERING P. C. VARGHESE 2005-01-01 Foundation Engineering is of prime importance to undergraduate and postgraduate students of civil engineering as well as to practising engineers. For, there is no construction - be it buildings (government, commercial and residential), bridges, highways, or dams - that does not draw from the principles and application of this subject. Unlike many textbooks on Geotechnical Engineering that deal with both Soil Mechanics and Foundation Engineering, this text gives an exclusive treatment and an indepth analysis of Foundation Engineering. What distinguishes the text is that it not merely equips the students with the necessary knowledge for the course and examination, but provides a solid foundation for further practice in their profession later. In addition, as the book is based on the Codes prescribed by the Bureau of Indian Standards, students of Indian universities will find it particularly useful. The author is specialized in both Soil Mechanics and Structural Engineering; he studied Soil Mechanics under the guidance of Prof. Terzaghi and Prof. Casagrande of Harvard University - the pioneers of the subject. Similarly, he studied Structural Engineering under Prof. A.L.L. Baker of Imperial College, London, the pioneer of Limit State Design. These specializations coupled with over 50 years of teaching experience of the author make this text authoritative and exhaustive. Intended as a text for undergraduate (Civil Engineering) and postgraduate (Geotechnical Engineering and Structural Engineering) students, the book would also be found highly useful to practising engineers and young academics teaching the course.

Plurality and Quantification F. Hamm 2013-03-14 The papers in this volume address central issues in the study of Plurality and Quantification from three different perspectives: • Algebraic approaches to Plurals and Quantification • Distributivity and Collectivity: Theoretical Foundations • Distributivity and Collectivity: Empirical Investigations Algebraic approaches to the semantics of natural languages were in dependently introduced for the study of generalized quantification, pred ication, intensionality, mass terms and plurality. The most prominent modern advocate for an algebraic theory of plurality (and mass terms) is certainly Godehard Link. It is indicative of the Wirkungsgeschichte of Link's work that most of the contributions in this volume take the logic of plurals proposed by Godehard Link (Link 1983, 1987) as their foundation or, at the very least, as their point of reference. Link's own paper in this volume provides a concise summary of many of the central research issues that have engaged semanticists during the last decade. Link's paper also contains an extensive bibliography that provides an excellent resource for scholars interested in the semantics of plurals. Since we can refer readers to Link's paper for an excellent survey of the subject matter of this book, we will limit our attention in this in troduction to summarizing the individual contributions in this volume. The book is organized into three main sections; within each section the papers are ordered alphabetically. However, as in much of linguistic the orizing, there is an exception: for reasons pointed out above, Godehard Link's article appears as Chapter 1.

Graded Modality Daniel Lassiter 2017-06 This book explores graded expressions of modality, a rich and underexplored source of insight into modal semantics. Studies on modal language to date have largely focussed on a small and non-representative subset of expressions, namely modal auxiliaries such as must, might, and ought. Here, Daniel Lassiter argues that we should expand the conversation to include gradable modals such as more likely than, quite possible, and very good. He provides an introduction to qualitative and degree semantics for graded meaning, using the Representational Theory of Measurement to expose the complementarity between these apparently opposed perspectives on gradation. The volume explores and expands the typology of scales among English adjectives and uses the result to shed light on the meanings of a variety of epistemic and deontic modals. It also demonstrates that modality is deeply intertwined with probability and expected value, connecting modal semantics with the cognitive science of uncertainty and choice.

Future Times, Future Tenses Philippe De Brabanter 2014 Future Times, Future Tenses examines how the future is expressed by means of tense, aspect, and modality across a wide range of languages, among them French, Polish, Basque, Turkish, and West Greenlandic. From the present point of view, the future is not fixed: while there is arguably only one past, the future is largely open and/or indeterminate. Reference to the future has thus become one of the most hotly-debated topics in contemporary linguistics: the interactions of future tense with future time, and of future tense with the semantics of possible worlds, are crucial to any satisfactory account of temporal linguistics. This book considers and seeks a resolution to outstanding issues in the field by uniting linguistic and philosophical perspectives on future reference in natural language. Scholars from different parts of the world approach these issues from a variety of theoretical perspectives, including those of linguistic typology, formal semantics, pragmatics, and philosophy of language. In the process they question the very validity of the traditional notion of a specific marker for future tense. The book shows the close connections between linguistic, logical, metaphysical, ontological, and epistemological issues concerning the future and reveals the value of linking linguistic considerations of tense and aspect to philosophical approaches to modality and time.

Deontic Modality Nate Charlow 2016-09-06 An extraordinary amount of recent work by philosophers of language, meta-ethicists, and semanticists has focused on the meaning and function of language expressing concepts having to do with what is allowed, forbidden, required, or obligatory, in view of the requirements of morality, the law, one's preferences or goals, or what an authority has commanded: in short, deontic modality. This volume presents new work on the much-discussed topic of deontic modality by leading figures in the philosophy of language, meta-ethics, and linguistic semantics. The papers tackle issues about the place of decision and probability theory in the semantics of deontic modality, the viability of standard possible worlds treatments of the truth conditions of deontic modal sentences, the possibility of dynamic semantic treatments of deontic modality, the methodology of semantics for deontic modals, and the prospects for representationalist, expressivist, and inferentialist treatments of deontic modality.

Tall Buildings Mehmet Halis Günel 2014-06-27 The structural challenges of building 800 metres into the sky are substantial, and include several factors which do not affect low-rise construction. This book focusses on these areas specifically to provide the architectural and structural knowledge which must be taken into account in order to design tall buildings successfully. In presenting examples of steel, reinforced concrete, and composite structural systems for such buildings, it is shown that wind load has a very important effect on the architectural and structural design. The aerodynamic approach to tall buildings is considered in this context, as is earthquake induced lateral loading. Case studies of some of the world’s most iconic buildings, illustrated with full colour photographs, structural plans and axonometrics, will bring to life the design challenges which they presented to architects and structural engineers. The Empire State Building, the Burj Khalifa, Taipei 101 and the HSB Turning Torso are just a few examples of the buildings whose real-life specifications are used to explain and illustrate core design principles, and their subsequent effect on the finished structure.

Reinforced Concrete Designer's Handbook Charles Edward Reynolds 1976

Column Shortening in Tall Structures Mark Fintel 1987

Seismic Design for Architects Andrew Charleson 2012-06-25 Seismic Design for Architects shows how structural requirements for seismic resistance can become an integral part of the design process. Structural integrity does not have to be at the expense of innovative, high standard design in seismically active zones. * By emphasizing design and discussing key concepts with accompanying visual material, architects are given the background knowledge and practical tools needed to deal with aspects of seismic design at all stages of the design process * Seismic codes from several continents are drawn upon to give a global context of seismic design * Extensively illustrated with diagrams and photographs * A non-mathematical approach focuses upon the principles and practice of seismic resistant design to enable readers to grasp the concepts and then readily apply them to their building designs Seismic Design for Architects is a comprehensive, practical reference work and text book for students of architecture, building science, architectural and civil engineering, and professional architects and structural engineers.

Structural Design of Multi-storeyed Buildings U. H. Varyani 2002

Reinforced Concrete Design S. U. Pillai 1988-01-01

Methodologies in Semantic Fieldwork M. Ryan Bochnak 2015 This volume discusses methodological issues in conducting elicitation on semantic topics in a fieldwork situation. In twelve chapters discussing 11 language families from four continents, authors draw on their own fieldwork experience, pairing explicit methodological proposals with concrete examples of their use in the field. Several chapters cover issues specific to semantic topics such as modality, comparison, tense and aspect, and definiteness, while others focus on elicitation techniques more generally, addressing methodological issues such as the creation of elicitation plans, the choice of language in which to conduct elicitation, and the status of translation tasks. Together, the chapters of this volume demonstrate that elicitation on semantic topics, when conducted following sound methodologies, can and does produce reliable results. Given the high number of languages currently classified as endangered, conducting one-on-one fieldwork with native speaker consultants is critical for gathering new empirical findings that bear on linguistic theory.

Advanced Geotechnical Engineering Chandrakant S. Desai 2013-11-27 Soil-structure interaction is an area of major importance in geotechnical engineering and geomechanics Advanced Geotechnical Engineering: Soil-Structure Interaction using Computer and Material Models covers computer and analytical methods for a number of geotechnical problems. It introduces the main factors important to the application of computer

Speech and Harm Ishani Maitra 2012-05-31 Most liberal societies are deeply committed to free speech, but there is evidence that some kinds of speech can be harmful in ways that are detrimental to important liberal values, such as social inequality. This volume draws on a range of approaches in order to explore the problem and determine what ought to be done about allegedly harmful speech.

Tentative Provisions for the Development of Seismic Regulations for Buildings Applied Technology Council 1978

Advanced Concrete Technology Zongjin Li 2011-01-11 Over the past two decades concrete has enjoyed a renewed level of research and testing, resulting in the development of many new types of concrete. Through the use of various additives, production techniques and chemical processes, there is now a great degree of control over the properties of specific concretes for a wide range of applications. New theories, models and testing techniques have also been developed to push the envelope of concrete as a building material. There is no current textbook which brings all of these advancements together in a single volume. This book aims to bridge the gap between the traditional concrete technologies and the emerging state-of-the-art technologies which are gaining wider use.

Inquisitive Semantics Ivano Ciardelli 2018-12-27 This is an open access title available under the terms of a CC BY-NC-ND 4.0 International licence. It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations. This book presents a new logical framework to capture the meaning of sentences in conversation. The traditional approach equates meaning with truth-conditions: to know the meaning of a sentence is to know under which circumstances it is true. The reason for this is that linguistic and philosophical investigations are usually carried out in a logical framework that was originally designed to characterize valid argumentation. However, argumentation is neither the sole, nor the primary function of language. One task that language more widely and ordinarily fulfils is to enable the exchange of information between conversational participants. In the framework outlined in this volume, inquisitive semantics, information exchange is seen as a process of raising and resolving issues. Inquisitive semantics provides a new formal notion of meaning, which makes it possible to model various concepts that are crucial for the analysis of linguistic information exchange in a more refined and more principled way than has been possible in previous frameworks. Importantly, it also allows an integrated treatment of statements and questions. The first part of the book presents the framework in detail, while the second demonstrates its benefits in the semantic analysis of questions, coordination, modals, conditionals, and intonation. The book will be of interest to researchers and students from advanced undergraduate level upwards in the fields of semantics, pragmatics, philosophy of language, and logic.

Design of Steel Structures Edwin Henry Gaylord 1992

Earthquake Resistant Design of Structures Shashikant K. Duggal 2013-05 Earthquake-resistant Design of Structures 2e is designed for undergraduate students of civil engineering.

Handbook of Structural Engineering W.F. Chen 2005-02-28 Continuing the tradition of the best-selling Handbook of Structural Engineering, this second edition is a comprehensive reference to the broad spectrum of structural engineering, encapsulating the theoretical, practical, and computational aspects of the field. The authors address a myriad of topics, covering both traditional and innovative approaches to analysis, design, and rehabilitation. The second edition has been expanded and reorganized to be more informative and cohesive. It also follows the developments that have emerged in the field since the previous edition, such as advanced analysis for structural design, performance-based design of earthquake-resistant structures, lifecycle evaluation and condition assessment of existing structures, the use of high-performance materials for construction, and design for safety. Additionally, the book includes numerous tables, charts, and equations, as well as extensive references, reading lists, and websites for further study or more in-depth information. Emphasizing practical applications and easy implementation, this text reflects the increasingly global nature of engineering, compiling the efforts of an international panel of experts from industry and academia. This is a necessity for anyone studying or practicing in the field of structural engineering. New to this edition Fundamental theories of structural dynamics Advanced analysis Wind and earthquake-resistant design Design of prestressed concrete, masonry, timber, and glass structures Properties, behavior, and use of high-performance steel, concrete, and fiber-reinforced polymers Semirigid frame structures Structural bracing Structural design for fire safety

Structural Design in Wood Judith Stalnaker 2013-03-07 The prime purpose of this book is to serve as a design is of considerable value in helping the classroom text for the engineering or architec student make the transition from the often sim ture student. It will, however, also be useful to plistic classroom exercises to problems of the designers who are already familiar with design real world. Problems for solution by the student in other materials (steel, concrete, masonry) but follow the same idea. The first problems in each need to strengthen, refresh, or update their capa subject are the usual textbook-type problems, bility to do structural design in wood. Design but in most chapters these are followed by prob principles for various structural materials are lems requiring the student to make structural similar, but there are significant differences. planning decisions as well. The student may be This book shows what they are. required, given a load source, to find the magni The book has features that the authors believe tude of the applied loads and decide upon a set it apart from other books on wood structural grade of wood. Given a floor plan, the student design. One of these is an abundance of solved may be required to determine a layout of struc examples. Another is its treatment of loads. This tural members. The authors have used most of book will show how actual member loads are the problems in their classes, so the problems computed. The authors have found that students, have been tested.

Guidelines for earthquake resistant non-engineered construction Arya, Anand S 2014-08-25

Structural Engineering Handbook Edwin Henry Gaylord 1979

Concrete Structures R. F. Warner 1998 Concrete Structures provides an easy-to-understand, integrated and comprehensive treatment of the behaviour, analysis and design of reinforced concrete and prestressed concrete structures. Concrete Structures is the definitive Australia textbook on concrete structures for students and professionals.

Time-Dependent Behaviour of Concrete Structures Raymond Ian Gilbert 2010-09-15 Serviceability failures of concrete structures involving excessive cracking or deflection are relatively common, even in structures that comply with code requirements. This is often as a result of a failure to adequately account for the time-dependent deformations of concrete in the design of the structure. The serviceability provisions embodied in codes of practice are relatively crude and, in some situations, unreliable and do not adequately model the in-service behaviour of structures. In particular, they fail to adequately account for the effects of creep and shrinkage of the concrete. Design for serviceability is complicated by the non-linear and inelastic behaviour of concrete at service loads. Providing detailed information, this book helps engineers to rationally predict the time-varying deformation of concrete structures under typical in-service conditions. It gives analytical methods to help anticipate time-dependent cracking, the gradual change in tension stiffening with time, creep induced deformations and the load independent strains caused by shrinkage and temperature changes. The calculation procedures are illustrated with many worked examples. A vital guide for practising engineers and advanced students of structural engineering on the design of concrete structures for serviceability and provides a penetrating insight into the time-dependent behaviour of reinforced and prestressed concrete structures.

Handbook of Concrete Engineering Mark Fintel 1985-03-31

PCI Manual for the Design of Hollow Core Slabs Donald R. Buettner 1985

Formal approaches to number in Slavic and beyond Mojmír Do□ekal The goal of this collective monograph is to explore the relationship between the cognitive notion of number and various grammatical devices expressing this concept in natural language with a special focus on Slavic. The book aims at investigating different morphosyntactic and semantic categories including plurality and number-marking, individuation and countability, cumulativity, distributivity and collectivity, numerals, numeral modifiers and classifiers, as well as other quantifiers. It gathers 19 contributions tackling the main themes from different theoretical and methodological perspectives in order to contribute to our understanding of cross-linguistic patterns both in Slavic and non-Slavic languages.

Raft Foundation Design And Analysis With A Practical Approach Sharat Chandra Gupta 2007 Available Textbooks, Handbooks, Various Publications And Papers Give Widely Different Approaches For Design Of Raft Foundations. These Approaches Make Their Own Assumptions And Deal With Ideal Raft, Symmetrical In Shape And Loading. In Actual Practice Rafts Are Rarely So. A Structural Designer Engaged In The Design Of Raft Foundations Finds It Hard To Select The Method That Can Be Carried Out Within The Time And Cost Available For Design And Give Adequate Safety And Economy.This Book Covers Complete Design Of Raft Foundations Including Piled Rafts, Starting From Their Need, Type, All The Approaches Suggested So Far In Published Literature, Effect Of Assumptions Made And Values Of Variables Selected, On The Design Values Of Stresses, And Brings Out The Limitations Of These Approaches Using Actually Constructed Rafts.Results Of Studies Carried Out By The Author Are Summarised And Final Recommendations Given. Solved Examples Are Included For Each Of The Methods Recommended. Comprehensive Treatment Of The Subject Makes The Book Helpful To The Design Engineers, Engineering Teachers, Students And Even Those Who Are Engaged In Further Research.

Engineered Concrete Irving Kett 2009-12-23 As every civil engineer knows, Portland Cement is the most versatile and important material of construction, and will probably remain so far into the future. Yet few books, if any, exist that offer an in-depth analysis of the mixing and testing methods of this vital hydraulic cement. This statement, written about the first edition of Engineere

Failure Mechanisms in Building Construction David Harlan Nicastro 1997 David Nicastro examines various types of failure mechanisms, including their causes and identifying characteristics, and provides a comprehensive collection of case histories.

Precast Concrete Handbook National Precast Concrete Association Australia 2002 This book "is neither a standard nor a textbook, but rather a reference document recommending good practice in precast construction to designers, engineers, architects, builders and students. It provides guidance for those involved in the design, specification, manufacture and installation of precast concrete." -- page iii.

Design and Construction of Large-panel Concrete Structures Portland Cement Association 1975

Design of Reinforced Concrete Jack C. McCormac 2005 Publisher Description

EARTHQUAKE RESISTANT DESIGN OF STRUCTURES PANKAJ AGRAWAL 2006-01-01 This comprehensive and well-organized book presents the concepts and principles of earthquake resistant design of structures in an easy-to-read style. The use of these principles helps in the implementation of seismic design practice. The book adopts a step-by-step approach, starting from the fundamentals of structural dynamics to application of seismic codes in analysis and design of structures. The text also focusses on seismic evaluation and retrofitting of reinforced concrete and masonry buildings. The text has been enriched with a large number of diagrams and solved problems to reinforce the understanding of the concepts. Intended mainly as a text for undergraduate and postgraduate students of civil engineering, this text would also be of considerable benefit to practising engineers, architects, field engineers and teachers in the field of earthquake resistant design of structures.

Design in Modular Construction Mark Lawson 2014-02-24 Modular construction can dramatically improve efficiency in construction, through factory production of pre-engineered building units and their delivery to the site either as entire buildings or as substantial elements. The required technology and application are developing rapidly, but design is still in its infancy. Good design requires a knowledge of modular production, installation and interface issues and also an understanding of the economics and client-related benefits which influence design decisions. Looking at eight recent projects, along with background information, this guide gives you coverage of: generic types of module and their application vertical loading, stability and robustness dimensional and spacial

planning hybrid construction cladding, services and building physics fire safety and thermal and acoustic performance logistical aspects – such as transport, tolerances and safe installation. A valuable guide for professionals and a thorough introduction for advanced students.

Expansion Joints in Buildings National Research Council 1974-02-01 Many factors affect the amount of temperature-induced movement that occurs in a building and the extent to which this movement can occur before serious damage develops or extensive maintenance is required. In some cases joints are being omitted where they are needed, creating a risk of structural failures or causing unnecessary operations and maintenance costs. In other cases, expansion joints are being used where they are not required, increasing the initial cost of construction and creating space utilization problems. As of 1974, there were no nationally acceptable procedures for precise determination of the size and the location of expansion joints in buildings. Most designers and federal construction agencies individually adopted and developed guidelines based on experience and rough calculations leading to significant differences in the various guidelines used for locating and sizing expansion joints. In response to this complex problem, Expansion Joints in Buildings: Technical Report No. 65 provides federal agencies with practical procedures for evaluating the need for through-building expansion joints in structural framing systems. The report offers guidelines and criteria to standardize the practice of expansion joints in buildings and decrease problems associated with the misuse of expansions joints. Expansions Joints in Buildings: Technical Report No. 65 also makes notable recommendations concerning expansion, isolation, joints, and the manner in which they permit separate segments of the structural frame to expand and to contract in response to temperature fluctuations without adversely affecting the buildings structural integrity or serviceability.

Countering the Problem of Falsified and Substandard Drugs Institute of Medicine 2013-06-20 The adulteration and fraudulent manufacture of medicines is an old problem, vastly aggravated by modern manufacturing and trade. In the last decade, impotent antimicrobial drugs have compromised the treatment of many deadly diseases in poor countries. More recently, negligent production at a Massachusetts compounding pharmacy sickened hundreds of Americans. While the national drugs regulatory authority (hereafter, the regulatory authority) is responsible for the safety of a country's drug supply, no single country can entirely guarantee this today. The once common use of the term counterfeit to describe any drug that is not what it claims to be is at the heart of the argument. In a narrow, legal sense a counterfeit drug is one that infringes on a registered trademark. The lay meaning is much broader, including any drug made with intentional deceit. Some generic drug companies and civil society groups object to calling bad medicines counterfeit, seeing it as the deliberate conflation of public health and intellectual property concerns. Countering the Problem of Falsified and Substandard Drugs accepts the narrow meaning of counterfeit, and, because the nuances of trademark infringement must be dealt with by courts, case by case, the report does not discuss the problem of counterfeit medicines.

PCI Design Handbook Leslie D. Martin 2004 The Sixth Edition provides easy-to-follow design procedures, newly formatted numerical examples, and both new and updated design aids using ASCE 7-02, ACI 318-02, the third edition of the AISC Steel Manual and IBC 2003. It also includes new and updated information on 15 foot wide double tee load tables, seismic design, torsion and shear design, load and resistance factors, headed stud connection design, and fire resistance.

Optical Properties of Solids Mark Fox 2010-03-25 For final year undergraduates and graduate students in physics, this book offers an up-to-date treatment of the optical properties of solid state materials.