

Perhitungan Volume Jembatan Beton

Seismic Rehabilitation Methods for Existing Buildings
Cable Supported Bridges
Water Power Development: High-head power plants
Managing Construction Contracts
Structural Concrete
Drainage Engineering
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Seismic Rehabilitation Methods for Existing Buildings

The first edition of this comprehensive work quickly filled the need for an in-depth handbook on concrete construction engineering and technology. Living up to the standard set by its bestselling predecessor, this second edition of the Concrete Construction Engineering Handbook covers the entire range of issues pertaining to the construction

Cable Supported Bridges

Water Power Development: High-head power plants

Managing Construction Contracts

Addresses key topic within bridge engineering, from history and aesthetics to design, construction and maintenance issues. This book is suitable for practicing civil and structural engineers in consulting firms and government agencies, bridge contractors, research institutes, and universities and colleges.

Structural Concrete

Prestressed concrete is widely used in the construction industry in buildings, bridges, and other structures. The new edition of this book provides up-to-date guidance on the detailed design of prestressed concrete structures according to the provisions of the latest preliminary version of Eurocode 2: Design of Concrete Structures, DD ENV 1992-1-1: 1992. The emphasis throughout is on design - the problem of providing a structure to fulfil a given purpose - but fundamental

concepts are also described in detail. All major topics are dealt with, including prestressed flat slabs, an important and growing application in the design of buildings. The text is illustrated throughout with worked examples and problems for further study. Examples are given of computer spreadsheets for typical design calculations. Prestressed Concrete Design will be a valuable guide to practising engineers, students and research workers.

Drainage Engineering

Sets out basic theory for the behavior of reinforced concrete structural elements and structures in considerable depth. Emphasizes behavior at the ultimate load, and, in particular, aspects of the seismic design of reinforced concrete structures. Based on American practice, but also examines European practice.

Engineering Cost Analysis

The Penetrometer and Soil Exploration: Interpretation of Penetration Diagrams—Theory presents the many uses of the penetrometer for investigating soil conditions. Testing methods include the following: (1) in situ load tests on full-scale foundations; (2) laboratory testing of undisturbed samples, and (3) in situ testing of soils. The book regards the advantages of using the penetrometer as a handy tool in drilling and sampling. The text emphasizes that the investigator should never rely entirely on the analogy or the extrapolation of information pertaining to a nearby site. The text describes the different shapes of the penetrometer diagrams obtained from tests in homogeneous cohesionless soil, as well as the significance of the embedment of a pile into the bearing stratum for deep foundation designs. The paper discusses the De Beer theory, Kerisel's theory, and the theory developed at the Delft Laboratory of Soil Mechanics. The laboratory determines the maximum soil pressure and the corresponding embedment of the pile. According to Professor L'Herminier, "the bearing capacity of a pile may be determined from laboratory tests on soil samples, the other by extrapolating penetrometer data." The book is suitable for structural engineers, civil engineers, geologists, architects, and students of soil mechanics.

Project Management

Professional Construction Management

Social Security Reform

Asphalt Surfacing has been written as a reference to the various asphalt course materials and surfacing treatments that are currently available to engineers, enabling them to select the materials and/or treatment that are appropriate for use on specific sites. Appropriate reference is made to the lower structural layers as the properties of all layers interact in producing the required pavement. The current established position in the UK and the emerging developments throughout the UK and Europe are covered. The contributors are all acknowledged authorities

on their particular topics selected from every part of the highway engineering industry to achieve a balance between the various approaches required by the different functions they perform.

Optimasi nilai pendapatan menggunakan algoritma genetika

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Prestressed Concrete

Estimating Construction Costs

Lightweight aggregate concrete is undergoing something of a renaissance. Although this material has been available for many years, only now is it being used more widely. This book provides a comprehensive review of this growing field from an international perspective.

Total Construction Project Management

This established textbook sets out the principles of limit state design and of its application to reinforced and prestressed concrete members and structures. It will appeal both to students and design engineers. The fourth edition incorporates information on the recently introduced British Standard Code of practice for water retaining structures BS8007. The authors have also taken the opportunity of making minor revisions, generally based on the recommendations of BS8110.

The Penetrometer and Soil Exploration

This text is intended for introductory courses on construction management, as well as more advanced, detailed courses on the subject. The authors aim to balance theoretical material with practical advice.

Design of Concrete Mixtures

Buku ini dipilih, karena kandungannya yang menempatkan cara pandang budaya

terhadap gejala arsitektur. Cara yang demikian ini diproyeksikan mampu memberi nilai terhadap arsitektur bukan hanya sekadar gejala fisik belaka, bahkan memberi bobot makna. Buku ini membedah arsitektur masjid, sentra arsitektur Islam, yang ternyata dalam perpektif budayanya, ia menjadi pewaris dan penerus kebudayaan dan peradaban agung umat manusia. Cara pandang ini memberikan kekayaan pengalaman praktek kehidupan keagamaan yang utuh, liat dan lentur, menerjemahkan doktrin keyakinan dalam kancah pergaulan peradaban yang nyata. Saling pinjam budaya, penapisan, dan pemilihan yang bersesuaian dengan doktrin tanpa terkesan merusak, bahkan memberi imbuhan nilai terhadap pencapaian peradaban baru, dicoba diketengahkan dalam paparan ini. Alhasil, buku ini memang berbicara tentang hidup dan kehidupan peradaban dan kemanusiaan, lewat arsitektur. [Mizan, Bentang, Agama, Motivasi, Indonesia]

Structural Concrete Cost Estimating

This is a how-to-do-it manual, limited to specific information on the use of asphalt in pavement maintenance. Planning, programming, financing and administration of maintenance are beyond its scope. Usually, money for pavement maintenance is limited and the maintenance man is called upon to "make one dollar do the work of two;" this is not easy. Large differences in soil types, climate, terrain, traffic and other factors make for greatly varying problems, even within small areas. Some regions are rugged and mountainous while others are fairly smooth and level; some have heavy rainfall, others are semi-arid; some highways and streets must accommodate vehicles carrying coal, ore, logs, or other heavy loads, while others are subjected to only light-weight traffic.

Portland Cement Paste and Concrete

Essays on civil engineering and technology; festschrift in honor of Roosseno, a prominent Indonesian civil engineer.

Reinforced Concrete Structures

Alat berat

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.

Structural Lightweight Aggregate Concrete

Suffering from chronic project headaches? Relief is on the way! PM pro George Ritz has written the prescription for the efficient, profitable, and headache-free management of any capital project. Total Construction Project Management combines the latest management innovations with tried-and-proven construction

techniques to produce a cutting-edge ``total system'' guaranteed to give you complete control over every phase of field operations. You'll see how to: prepare winning bids and proposals; obtain and negotiate favorable contracts; estimate accurate project costs; determine realistic project budgets; set attainable project schedules; organize human, physical, and financial resources; design, build, and motivate a field organization; implement effective project controls; ensure job-site safety; improve project communications; use PCs in the field and office; and much more.

Indeks majalah ilmiah Indonesia

ICE Manual of Bridge Engineering

Fourteen years on from its last edition, Cable Supported Bridges: Concept and Design, Third Edition, has been significantly updated with new material and brand new imagery throughout. Since the appearance of the second edition, the focus on the dynamic response of cable supported bridges has increased, and this development is recognised with two new chapters, covering bridge aerodynamics and other dynamic topics such as pedestrian-induced vibrations and bridge monitoring. This book concentrates on the synthesis of cable supported bridges, suspension as well as cable stayed, covering both design and construction aspects. The emphasis is on the conceptual design phase where the main features of the bridge will be determined. Based on comparative analyses with relatively simple mathematical expressions, the different structural forms are quantified and preliminary optimization demonstrated. This provides a first estimate on dimensions of the main load carrying elements to give in an initial input for mathematical computer models used in the detailed design phase. Key features: Describes evolution and trends within the design and construction of cable supported bridges Describes the response of structures to dynamic actions that have attracted growing attention in recent years Highlights features of the different structural components and their interaction in the entire structural system Presents simple mathematical expressions to give a first estimate on dimensions of the load carrying elements to be used in an initial computer input This comprehensive coverage of the design and construction of cable supported bridges provides an invaluable, tried and tested resource for academics and engineers.

Asphalt Surfacing

Segala puji bagi Allah, sehingga penyusunan Buku Ajar alat Berat (ABT) ini dapat kami selesaikan. Buku Ajar ini disusun sebagai salah buku referensi mahasiswa Program DIV Manajemen Konstruksi yang menempuh mata kuliah ABT. Mata kuliah ABT diberikan pada mahasiswa semester V Program DIV Manajemen Rekayasa Konstruksi Jurusan Teknik Sipil Politeknik Negeri Malang. Setelah menempuh mata kuliah Pengendalian Proyek ini diharapkan mahasiswa mempunyai pengetahuan (Knowlege) dan ketrampilan (Skill) dalam menentukan jenis alat berat dan menghitung produktifitas alat berat untuk pekerjaan konstruksi baik bidang sipil, sumber daya air maupun bidang gedung.

Rooseno, jembatan dan menjembatani

Social Security Reform: Analysis of a Trust Fund Exhaustion Scenario Illustrates the Difficult Choices and the Need for Early Action

Pearson Math 9

A reprint of the MIT Press edition of 1981, this is a graduate-level study for practicing engineers, researchers and teachers. Annotation copyrighted by Book News, Inc., Portland, OR

High-Strength Concrete

Project Management for Construction

Robert Peurifoy was a giant in the field of construction engineering and authored several books during his lifetime. This book last published in 1989 and will capitalize on the well-known name of the author. In this edition, computer calculations of costs and of modeling have been added as well as updated statistics, computer related examples and new problems. Civil, Environmental, and Construction Management Engineering Majors and Professionals will benefit from having this title on their shelf. This edition retains the conceptual strengths of the Peurifoy approach and organization from the previous edition but the new problems and computer-based examples and new up-to-date construction data make it the only choice in academia or industry.

Arsitektur masjid

Providing both an introduction to basic concepts and an in-depth treatment of the most up-to-date methods for the design and analysis of concrete of structures, "Design of Prestressed Concrete" will service the needs of both students and professional engineers.

Foundation Design

Buku ini menjelaskan bagaimana proses optimasi dilakukan untuk menghasilkan solusi terbaik dengan menggunakan dua metode yakni Regresi Linier Berganda dan Algoritma Genetika. Kedua metode tersebut diterapkan dengan menggunakan bahasa pemrograman R i386 4.0.1 dan IDE yang digunakan adalah rstudio 1.1.463.

Cable Structures

Driven by, and designed for, the 2005 Ontario Grade 9 Applied Math Curriculum, this program offers strategies for success for all learners.

Prestressed Concrete Design

Estimates can be prepared at any stage during a project but in order to make use

of an estimate it is important to consider its purpose, the stage of the project when it was prepared and the degree of risk in the project. To have any meaning, the purpose of any estimate must be linked to the stages of the project and to the data available. Project cost estimating offers practical advice and further information on the understanding, the preparation and the use of estimates in the civil engineering industry

Concrete Box-girder Bridges

Asphalt in Pavement Maintenance

Completely revised to reflect the new ACI 318-08 Building Code and International Building Code, IBC 2009, this popular book offers a unique approach to examining the design of prestressed concrete members in a logical, step-by-step trial and adjustment procedure. KEY TOPICS: Integrates handy flow charts to help readers better understand the steps needed for design and analysis. Includes a revised chapter containing the latest ACI and AASHTO Provisions on the design of post-tensioned beam end anchorage blocks using the strut-and-tie approach in conformity with ACI 318-08 Code. Offers a new complete section with two extensive design examples using the strut-and-tie approach for the design of corbels and deep beams. Features an addition to the elastic method of design, with comprehensive design examples on LRFD and Standard AASHTO designs of bridge deck members for flexure, shear and torsion, conforming to the latest AASHTO specifications. Includes a revised chapter on slender columns, including a simplified load-contour biaxial bending method which is easier to apply in design, using moments rather than loads in the reciprocal approach. MARKET: A useful construction reference for engineers.

Bridge Design Code

Design of Prestressed Concrete

Seismic Rehabilitation Methods for Existing Buildings covers various structures, effective parameters in seismic improvement, and other factors in seismic loading. The book offers guidance for a seismic reconstruction project based on the interpretation of publications FEMA 440, FEMA 172 and ATC 40. It includes real examples of completed and approved projects to stabilize the seismic improvement issues of existing buildings. Six perfectly executed examples, with complete refinement details, such as modeling, step-by-step improvement studies, and executive plans and seismic enhancement images are included. In essence, the book explains the classification of non-structural elements and how to carry out seismic reconstruction studies. Provides a fully functional way to evaluate, model and present details of a seismic rehabilitation plan for a building Presents real seismic refurbishment models and step-by-step methods for providing examples (including images, tables and charts)

PCI Design Handbook

Concrete Construction Engineering Handbook

This Second Edition focuses on the commercial issues of contracting, covering the lifespan of a contract in four stages: inception of need, bid and award, administration, termination. Written from the owners' perspective, it is appropriate for construction managers and contract administrators. New material includes the effects of the computer on construction management practices, the risks and rewards of cross-border contracts and the role of the lawyer.

Reinforced Concrete Design

This practical book from a highly experienced author presents clearly the means and methods for designing, producing and using high-strength concrete. High-strength concrete offers many benefits. Higher compressive strengths allow for a reduction in the cross-sectional dimensions of columns and walls in buildings. Its greater stiffness allows for in

Project Cost Estimating

Emphasizing a conceptual understanding of concrete design and analysis, this revised and updated edition builds the student's understanding by presenting design methods in an easy to understand manner supported with the use of numerous examples and problems. Written in intuitive, easy-to-understand language, it includes SI unit examples in all chapters, equivalent conversion factors from US customary to SI throughout the book, and SI unit design tables. In addition, the coverage has been completely updated to reflect the latest ACI 318-11 code.

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