Syllabus Civil Engineering Pune University

LIMIT STATE DESIGN IN STRUCTURAL STEEL
Basic Civil Engineering
Challenges and Opportunities for the Global Implementation of E-Learning Frameworks
Construction Management
Surveying Vol. I
Foundations Of Problem-Based Learning
Advanced Concrete Technology
DIGITAL IMAGE PROCESSING AND APPLICATIONS
Refrigeration and Air Conditioning
Fundamentals of Reinforced Concrete
Tribology
PBL in Engineering Education
Design of Machine Elements - I
Project Management and Engineering Economics
Basic Civil and Environmental Engineering
A Textbook of Surveying for Semester-II Second Year Degree Course in Civil Engineering as Per New Revised Syllabus of Pune University
Building Materials Technology
Engineering Mechanics
ATOMIC AND MOLECULAR PHYSICS
MICROBIOLOGY (PAPER--II) MICROBIAL CULTIVATION & GROWTH [2 Credits]

Textbook of Surveying
Structural Design III
Project Planning and Control with PERT & CPM
Basic Electronics
Financial Accounting (Part - I)
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IT and the Development of Digital Skills and Competences in Education
Turbo Machines
Systems in Mechanical Engineering
PRINCIPLES OF TRANSPORTATION ENGINEERING
Structural Analysis
Engineering Mathematics-II
Engineering Mathematics - III
Systems Approach in Civil Engineering
Basic and Applied Soil Mechanics
Theory of Machines
Durability Design of Concrete Structures
ANIMAL DIVERSITY -- II [2 Credits]
CONCRETE TECHNOLOGY

PONCE EZRA

LIMIT STATE DESIGN IN STRUCTURAL STEEL McGraw-Hill Companies
The Revised Edition Of A Widely Used Book Contains Several New Topics To Make The Coverage More Comprehensive And Contemporary. * Highlights The Ozone Hole Problem And Related Steps To Modify The Refrigeration Systems. * The Discussion Of Vapour

Compression/Absorption Systems Totally Recast With A Special Emphasis On Eco-Refrigerants. * Application Oriented Approach Followed Throughout The Book And Energy Efficiencyemphasised. * Several Real Life Problems Included To Illustrate The Practical Viability Of The Systems Discussed. * Additional Examples, Diagrams And Problems Included In Each Chapter For An Easier Grasp Of The Subject.With All These Features, This Book Would Serve As A Comprehensive Text For Undergraduate Mechanical Engineering Students. Postgraduate Students And Practising Engineers Would Also Find It Very Useful.

Basic Civil Engineering Technical Publications

PBL in Engineering Education: International Perspectives on Curriculum Change presents diverse views on the implementation of PBL from across the globe. The purpose is to exemplify curriculum changes in engineering education. Drivers for change, implementation descriptions, challenges and future perspectives are addressed. Cases of PBL models are presented from Singapore, Malaysia, Tunisia, Portugal, Spain and the USA. These cases are stories of thriving success that can be an inspiration for those who aim to implement PBL and change their engineering education

practices. In the examples presented, the change processes imply a transformation of vision and values of what learning should be, triggering a transition from traditional learning to PBL. In this sense, PBL is also a learning philosophy and different drivers, facing diverse challenges and involving different actors, trigger its implementation. This book gathers experiences, practices and models, through which is given a grasp of the complexity, multidimensional, systemic and dynamic nature of change processes. Anette Kolmos, director of Aalborg PBL Centre, leads off the book by presenting different strategies to curriculum change, addressing three main strategies of curriculum change, allowing the identification of three types of institutions depending on the type of strategy used. Following chapters describe each of the PBL cases based upon how they implement the seven components of PBL: (i) objectives and knowledge; (ii) types of problems, projects and lectures; (iii) progression, size and duration; (iv) students' learning; (v) academic staff and facilitation; (vi) space and organization; and (vii) assessment and evolution. The book concludes with a chapter summarizing all chapters and providing an holistic perspective of change processes.

Challenges and

Opportunities for the Global Implementation of E-Learning Frameworks Technical Publications
This book, about international contracting and contract management, is written from the angle of the contractor and discussed from an international perspective. It comments on real-life cases, taken from various kinds of projects: infrastructural works (roads, bridges, tunnels, rail roads), wind- and sunfarms, oil and gas installations, such as platforms, pipe lines, power generating works, and large buildings.The book is structured around the contracting cycle. Chapters include dealing with the role of the contractor in international contracting, the tender process, landing and negotiating the contract, types of contract, problems that may occur during project execution, project delivery, and handling guarantee claims.Written primarily for business practitioners operating in the international contracting industry, the title assumes that the reader will have a basic understanding and knowledge of theories related to project management, construction engineering, business law and economics.Though not an academic book, due to its unique blend of practitioners'' insight and academic theory, it can be taught in courses at institutes at the master level. As most engineers are

going to deal with contracts, this book is specifically recommended for engineering programs both at the graduate and postgraduate level. Lawyers will find the book useful to understand the business context in which their customers and/or colleagues work.

Construction Management

Springer

This book on Reinforced Concrete has been comprehensively revised with a view to make it more suitable for the updated syllabus of various Technical Institutes and Engineering Colleges of different Universities.

Surveying Vol. I CRC Press

Digital technologies are transforming economies and societies around the world. As such, markets demand new types of skills and competences that students must learn in order to be successful. IT and emerging technologies can be integrated into educational institutions to improve teaching methods and academic results as well as digital literacy. IT and the Development of Digital Skills and Competences in Education compiles critical research into one comprehensive reference source that explores the new demands of labor markets in the digital economy, how educational institutions can respond to these new opportunities and threats, the

development of new teaching and learning methods, and the development of digital skills and competences. Through new theories, research findings, and case studies, the book seeks to incite new perspectives to understandings of the challenges and opportunities of the utilization of IT in the education sector around the world. Due to innovative topics that include digital competence, disruptive technologies, and digital transformation, this book is an ideal reference for academicians, directors of schools, vice-chancellors, education and IT experts, CEOs, policymakers in the field of education and IT, researchers, and students.

Foundations Of Problem-Based Learning Firewall Media

The syllabi for F.Y.B.Sc. Microbiology have been revised and modified so as to widen the scope of the subject to be compatible to present developments and needs of the subject. Our effort is to provide the students with the best guidelines in order to help them to achieve the expected outcomes in these changed circumstances. This book covers the entire new and revised syllabus for the first semester of F.Y.B.Sc. (Microbiology) as prescribed by SPPU.

Advanced Concrete Technology PHI Learning Pvt. Ltd.

Mechanical engineering, as its

name suggests, deals with the mechanics of operation of mechanical systems. This is the branch of engineering which includes design, manufacturing, analysis and maintenance of mechanical systems. It combines engineering physics and mathematics principles with material science to design, analyse, manufacture and maintain mechanical systems. This book covers the field requires an understanding of core areas including thermodynamics, material science, manufacturing, energy conversion systems, power transmission systems and mechanisms. This book includes basic knowledge of various mechanical systems used in day to day life. My hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

DIGITAL IMAGE PROCESSING AND APPLICATIONS

McGraw-Hill Education (UK)

1 Linear differential equations with constant coefficients 2 Simultaneous linear Differential Equations 3 Applications of Differential Equations 4 System of linear equations 5 Numerical solution of ordinary differential equations 6 Statistics correlation and regression 7 Probability and probability distributions 8 Vector

algebra 9 Vector differentiation 10 Vector integration 11 Application of vectors to fluid mechanics 12 Application of partial differential equations

Refrigeration and Air Conditioning New Age International

1 Introduction to Project management 2 Project Planning And Scheduling 3 PRoject Monitoring And Control 4 Project Economics 5 Project Resources And Safety Aspects 6 Project Appraisal University Question Papers

Fundamentals of Reinforced Concrete Universities Press

While writing the book,we have continuously kept in mind the examination requirments of the students preparing for U.P.S.C.(Engg. Services)and A.M.I.E.(I)examinations .In order to make this volume more useful for them,complete solutions of their examination papers up to 1975 have also been included.Every care has been taken to make this treatise as self-explanatory as possible.The subject matter has been amply illustrated by incorporating a good number of solved,unsolved and well graded examples of almost every variety.

Tribology S. Chand Publishing

This detailed introduction to transportation engineering is designed to serve as a comprehensive text for under-graduate as well as first-year master's students in civil engineering. In order to

keep the treatment focused, the emphasis is on roadways (highways) based transportation systems, from the perspective of Indian conditions.
PBL in Engineering Education Technical Publications
The term design means to plan for the construction of an object or the formulation of a plan for the satisfaction of need. The term machine design deals with the design of machines, their mechanisms and elements. Design of Machine Element (DME) may be defined as the selection of material and the dimensions for each geometrical parameter so that the element satisfies its function and undesirable effects are kept within the allowable limit.
Machine elements are basic mechanical parts and features used as the building blocks of most machines. This book provides a systematic exposition of the basic concepts and techniques involved in design of machine elements. This book covers design of important mechanical elements such as shafts, couplings, springs and power screws under static load. The design of welded and threaded joints and the members subjected to fluctuating loads is also included in this book. Our hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge

and proper application of that knowledge.
Design of Machine Elements - I Nirali Prakashan
This Volume Is One Of The Two Which Offer A Comprehensive Course In Those Parts Of Theory And Practice Of Plane And Geodetic Surveying That Are Most Commonly Used By Civil Engineers. The First Volume Covers In 24 Chapters, The Most Common Surveying Operations. Each Topic Introduced Is Thoroughly Described, The Theory Is Rigorously Developed, And A Large Number Of Numerical Examples Are Included To Illustrate Its Application. General Statements Of Important Principles And Methods Are Almost Invariably Given By Practical Illustration. Apart From Illustrations Of Old And Conventional Instruments, Emphasis Has Been Placed On New Or Modern Instruments, Both For Ordinary As Well As Precise Work. A Good Deal Of Space Has Been Given To Instrumental Adjustments With Thorough Discussion Of Geometrical Principles In Each Case. Many New Advanced Problems Have Also Been Added Which Will Prove Useful For Competitive Examinations.
Project Management and Engineering Economics A Textbook of Surveying for Semester-II Second Year Degree Course in Civil Engineering as Per New Revised Syllabus of Pune UniversityBasic Civil and

Environmental EngineeringSystems Approach in Civil Engineering
This title outlines different approaches to problem-based learning, suggests reasons for its growth and details its use across all disciplines.
Basic Civil and Environmental Engineering S. Chand Publishing
Engineering mechanics is the branch of the physical science which describes the response of bodies or systems of bodies to external behaviour of a body, in either a beginning state of rest or of motion, subjected to the action of forces. It bridges the gap between physical theory and its application to technology. It is used in many fields of engineering, especially mechanical engineering and civil engineering. Much of engineering mechanics is based on Sir Issac Newton's laws of motion. Within the practical sciences, engineering mechanics is useful in formulating new ideas and theories, discovering and interpreting phenomena and developing experimental and computational tools. Engineering mechanics is the application of applied mechanics to solve problems involving common engineering elements. The goal of this engineering mechanics course is to expose students to problems in mechanics as applied to plausibly real-world scenarios. Problems of particular

types are explored in detail in the hopes that students will gain an inductive understanding of the underlying principles at work; students should then be able to recognize problems of this sort in real-world situations and respond accordingly. Our hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

A Textbook of Surveying for Semester-II Second Year Degree Course in Civil Engineering as Per New Revised Syllabus of Pune University New Age International

The subject matter is profusely illustrated with a number of clear and labelled diagrams. We sincerely feel that this book will fulfill the requirements of the students as well as teachers. While preparing this book several standard reference books and text books have been consulted. Emphasis has been laid on furnishing maximum information required for students in a simple and lucid language. Zoology is an interesting subject because the animal world is full of diversity, adaptations, habits and habitats and behaviour.

Building Materials Technology John Wiley & Sons

Concrete structures can be designed for durability by applying the principles and procedures of reliability

theory combined with traditional structural design. This book is the first systematic attempt to introduce into structural design a general theory of structural reliability and existing calculation models for common degradation processes. It covers both the theoretical background and practical design for service life and includes worked examples which highlight the application of the design procedure and methods.

Engineering Mechanics Horizon Books (A Division of Ignited Minds Edutech P Ltd)

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.

ATOMIC AND

MOLECULAR PHYSICS Technical Publications PART I 1 Opening the door 2 Site layout or job site layout 3 Feasibility study 4 Construction management process PART II 1 Overview of construction sector 2 Construction scheduling 3 Work study and work measurement 4 Labour laws 5 Financial Aspects of construction projects 6 Risk management 7 Value Engineering 8 materials management 9 Human resource management 10 Instruction to artificial intelligence technique PART III 1 Modern Technological trends of construction management 2 Sustainable green construction Bibliography University Question Papers Sample Question Paper for In Semester Examination Sample Question Paper for End Semester Examination *MICROBIOLOGY (PAPER--II) MICROBIAL CULTIVATION & GROWTH [2 Credits]* World Scientific A reference on basic physical and chemical properties of current building materials, for students, architects, designers, structural engineers, contractors, and specification writers. Following the CSI Masterformat, the guide outlines the relationship between structure, properties, and performance, and details properties of interior and exterior materials such as concrete, polymers, woods, roofing materials, and protective finishes,

discussing common problems. Contains key terms and questions, plus bandw photos. Annotation copyright by Book News, Inc., Portland, OR