

Finite Mathematics With Applications 10th Edition

PPI PE Structural Reference Manual, 10th Edition – Complete Review for the NCEES PE Structural Engineering (SE) Exam
Theoretical Foundations and Application of Photonic Crystals
Fundamentals of Ordinary Differential Equations
Strength and Conditioning for Sports Performance
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this book is devoted to the description of research and design of photonic crystals topics included in the book
cover a wide range of research in the field of theoretical analysis and experimental investigation the
electromagnetic field in the photonic crystal propagation of waves in the gyrotropic magnetophotonic crystals
low one photon absorption ultratransparent photonic crystals colloidal assembly photonic crystal application
for development of all optical computational system design strategies for pc devices self organization of liquid
crystalline nanostructures and optical diodes this book will be useful for engineers technologists researchers
and postgraduate students interested in the research design fabrication processes and applications of photonic
crystals

fundamentals of ordinary differential equations is a comprehensive guide designed for students researchers
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practical applications providing a well rounded resource for understanding differential equations and their real
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an effective strength and conditioning program is an essential component of the preparation of any athlete or
sportsperson strength and conditioning for sports performance is a comprehensive and authoritative
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second edition the book continues to include clear and rigorous explanations of the core science underpinning
strength and conditioning techniques and give detailed step by step guides to all key training methodologies
including training for strength speed endurance flexibility and plyometrics the second edition expands on the
opening coaching section as well as introducing an entirely new section on current training methods which
includes examining skill acquisition and motor learning throughout the book the focus is on the coaching

process with every chapter highlighting the application of strength and conditioning techniques in everyday coaching situations strength and conditioning for sports performance includes a unique and extensive section of sport specific chapters each of which examines in detail the application of strength and conditioning to a particular sport from soccer and basketball to golf and track and field athletics the second edition sees this section expanded to include other sports such as rugby union rugby league and american football the book includes contributions from world leading strength and conditioning specialists including coaches who have worked with olympic gold medallists and international sports teams at the highest level strength and conditioning for sports performance is an essential course text for any degree level student with an interest in strength and conditioning for all students looking to achieve professional accreditation and an invaluable reference for all practising strength and conditioning coaches

this book is meant for the students of engineering courses specially of gulf cooperation council gcc countries necessary theory is employed in outlining definitions formulae laws etc however intention is to introduce the topics through examples applications and analogies instead of abstract theoretical arguments the book explains basics of differential equations formation of differential equations order and degree solutions of differential equations by variable separable homogenous non homogenous linear nonlinear exact and reducible to exact differential equations orthogonal trajectories nth order differential equations simultaneous differential equations boundary value problems laplace transform z transform and fourier transform

this open access book is the 2nd edition involving the update on data methods and models of grey systems it covers up to date theoretical and applied advances in grey systems from across the world and vividly presents the reader with the overall picture of this new theory and its frontier research many of the concepts models and methods in the book are original by the author including kernel degree of greyness of grey number simplified form of grey number general grey number and the operation system the axiomatic system of buffer operators and a series of weakening and strengthening buffer operators a series of grey relational analysis models including grey absolute relative synthetic similarity closeness negative three dimension and grey relational analysis model for cross sequences etc grey fixed weight clustering model grey evaluation models based on center point and end point mixed possibility functions original difference grey model odgm even difference grey model edgm discrete grey model dgm fractional grey models self memory grey models multi attribute weighted intelligent grey target decision models kernel weight vector group and the weighted comprehensive clustering coefficient vector and spectrum analysis of sequence operators etc the revision includes 1 added new achievements made in recent years such as the moving average denoise operator a series of negative grey relational models grey relational model for cross sequences standard uncertainty numbers and their operations adaptive grey prediction models and so on 2 important data related to the development of grey system theory has been updated 3 research reviews have been added to each chapter and a large number of references have been added 4 updated application examples of commonly used models and methods this book will be appropriate as a reference and or textbook for courses of grey system theory for graduate students or high level undergraduate students majoring in various fields of natural sciences social sciences and engineering technology it can also be utilized by researchers and technicians in research institutions business entities and

government agencies

the theme of this volume is dealing with volatility and enhancing performance during a time when there is much concern about the perceived volatility of global equity markets the insights offered here could be reassuring as well as useful

a complete guide to fluid mechanics for engineers fully updated for current standards this thoroughly revised classic guide clearly explains the principles and applications of fluid mechanics and hydraulics in a straightforward manner without using complicated mathematics while aimed at undergraduate students practicing engineers will also benefit from the hands on information covered you will explore fluid mechanics fundamentals pipe and open channel flow unsteady flow and much more written by a pair of experienced engineering educators fluid mechanics with civil engineering applications eleventh edition focuses on reducing and streamlining content while retaining its traditional approach to teaching fundamental concepts by solving engineering problems this overhauled edition features new practical sample problems and exercises and incorporates digital resources while removing some more advanced topics less essential to civil engineering contains new and extensively updated content to meet current standards incorporates new examples and problems includes a new online problem and solutions manual as well as additional resources for students and instructors

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