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*Skillfully organized
introductory text examines
origin of differential
equations, then defines*

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the general solution of a
differential equation.
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with integrating factors;
dilution and accretion
problems; linearization of*

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*optimization, probability
and statistics that are
used in machine learning.
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a 12-chapter text that
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*elementary methods of
finding solutions using
ordinary differential
equations. This book
starts with an
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*variable of linear
differential equations.
Considerable chapters
covered topics that are of
particular interest in
applications, including
Laplace transforms,*

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*eigenvalue problems,
special functions, Fourier
series, and boundary-value
problems of mathematical
physics. Other chapters
are devoted to some topics
that are not directly*

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concerned with finding solutions, and that should be of interest to the mathematics major, such as the theorems about the existence and uniqueness of solutions. The final

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chapters discuss the stability of critical points of plane autonomous systems and the results about the existence of periodic solutions of nonlinear equations. This

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Differential Equations

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analytical, numerical
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theory and analytic
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this book. Fundamental and recent developments are presented on the inequalities of Abel, Agarwal, Beckenbach, Bessel, Cauchy-Hadamard, Chebychev, Markov, Euler's

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*constant, Grothendieck,
Hilbert, Hardy, Carleman,
Landau-Kolmogorov,
Carlson, Bernstein-Mordell,
Gronwall, Wirtinger, as well
as inequalities of functions
with their integrals and*

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Differential and Integral

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Inequalities

Stochastic differential equations are differential equations whose solutions are stochastic processes. They exhibit appealing mathematical properties that are useful in modeling

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uncertainties and noisy phenomena in many disciplines. This book is motivated by applications of stochastic differential equations in target tracking and medical technology and, in particular, their use in

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methodologies such as filtering, smoothing, parameter estimation, and machine learning. It builds an intuitive hands-on understanding of what stochastic differential equations are all about, but

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also covers the essentials of It calculus, the central theorems in the field, and such approximation schemes as stochastic Runge–Kutta. Greater emphasis is given to solution methods than to analysis of theoretical

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properties of the equations. The book's practical approach assumes only prior understanding of ordinary differential equations. The numerous worked examples and end-of-chapter exercises include application-driven

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derivations and
computational assignments.
MATLAB/Octave source code is
available for download,
promoting hands-on work with
the methods.

Exact solutions of
differential equations

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continue to play an important role in the understanding of many phenomena and processes throughout the natural sciences in that they can verify the correctness of or estimate errors in solutions

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focus on equations
encountered in applications
and on equations that appear
simple but prove
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integrate make it an

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the arsenals of
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Unlike most texts in
differential equations, this
textbook gives an early
presentation of the Laplace

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transform, which is then used to motivate and develop many of the remaining differential equation concepts for which it is particularly well suited. For example, the standard solution methods for

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constant coefficient linear differential equations are immediate and simplified, and solution methods for constant coefficient systems are streamlined. By introducing the Laplace transform early in the text,

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students become proficient in its use while at the same time learning the standard topics in differential equations. The text also includes proofs of several important theorems that are not usually given in

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equations, general linear
differential equations with
constant coefficients,
second order linear
differential equations with
variable coefficients, power
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systems of differential equations. It is assumed that the reader has had the equivalent of a one-year course in college calculus. Interactions between the fields of physics and biology reach back over a

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century, and some of the most significant developments in biology--from the discovery of DNA's structure to imaging of the human brain--have involved collaboration across this

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disciplinary boundary. For a new generation of physicists, the phenomena of life pose exciting challenges to physics itself, and biophysics has emerged as an important subfield of this discipline.

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opportunities for quantitative, physics-style experiments on diverse biological phenomena. He draws from these lessons three general physical principles--the importance of noise, the need to

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understand the extraordinary performance of living systems without appealing to finely tuned parameters, and the critical role of the representation and flow of information in the business of life. Bialek then applies

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differential equations An extensive on-line solution manual About the author: Kenneth B. Howell earned bachelor's degrees in both mathematics and physics from Rose-Hulman Institute of Technology, and master's and doctoral degrees in

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mathematics from Indiana University. For more than thirty years, he was a professor in the Department of Mathematical Sciences of the University of Alabama in Huntsville. Dr. Howell published numerous research articles in applied

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and theoretical mathematics in prestigious journals, served as a consulting research scientist for various companies and federal agencies in the space and defense industries, and received awards from the College and University for

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outcomes for**

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through a wealth of
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foremost, the material is presented in a manner which is rigorous enough for our mathematics and applied mathematics majors, but yet intuitive and practical enough for our engineering, biology,

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economics, physics and geology majors. Secondly, numerous case histories are given of how researchers have used differential equations to solve real life problems. This book is the outgrowth of this course. It

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is a rigorous treatment of differential equations and their applications, and can be understood by anyone who has had a two semester course in Calculus. It contains all the material usually covered in a

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one or two semester course in differential equations. In addition, it possesses the following unique features which distinguish it from other textbooks on differential equations.

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Linear Differential Equations and Oscillators is the first book within Ordinary Differential Equations with Applications to Trajectories and Vibrations, Six-volume Set. As a set, they are the fourth volume in the series

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Mathematics and Physics
Applied to Science and
Technology. This first book
consists of chapters 1 and 2 of
the fourth volume. The first
chapter covers linear
differential equations of any

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order whose unforced solution can be obtained from the roots of a characteristic polynomial, namely those: (i) with constant coefficients; (ii) with homogeneous power coefficients with the exponent

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equal to the order of derivation. The method of characteristic polynomials is also applied to (iii) linear finite difference equations of any order with constant coefficients. The unforced and forced solutions

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of (i,ii,iii) are examples of some general properties of ordinary differential equations. The second chapter applies the theory of the first chapter to linear second-order oscillators with one degree-of-freedom,

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such as the mechanical mass-damper-spring-force system and the electrical self-resistor-capacitor-battery circuit. In both cases are treated free undamped, damped, and amplified oscillations; also

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forced oscillations including beats, resonance, discrete and continuous spectra, and impulsive inputs. Describes general properties of differential and finite difference equations, with focus on linear

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equations and constant and
some power coefficients
Presents particular and general
solutions for all cases of
differential and finite difference
equations Provides complete
solutions for many cases of

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forcing including resonant cases Discusses applications to linear second-order mechanical and electrical oscillators with damping Provides solutions with forcing including resonance using the

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characteristic polynomial,
Green' s functions,
trigonometrical series, Fourier
integrals and Laplace
transforms

A FIRST COURSE IN
DIFFERENTIAL EQUATIONS

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content referenced within the product description or the product text may not be available in the ebook version. This handbook is the third volume in a series of volumes devoted to self contained and

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up-to-date surveys in the theory of ordinary differential equations, written by leading researchers in the area. All contributors have made an additional effort to achieve readability for mathematicians

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and scientists from other related fields so that the chapters have been made accessible to a wide audience. These ideas faithfully reflect the spirit of this multi-volume and hopefully it becomes a very

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useful tool for research, learning and teaching. This volume consists of seven chapters covering a variety of problems in ordinary differential equations. Both pure mathematical research and real

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financial institutions. This handbook discusses a variety of econometric methods, including single equation multiple regression, simultaneous equation regression, and panel data analysis, among others. It also covers statistical distributions, such as the

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binomial and log normal distributions, in light of their applications to portfolio theory and asset management in addition to their use in research regarding options and futures contracts. In both theory and methodology, we need to rely upon

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mathematics, which includes linear algebra, geometry, differential equations, Stochastic differential equation (Ito calculus), optimization, constrained optimization, and others. These forms of mathematics have been used to derive capital market

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line, security market line (capital asset pricing model), option pricing model, portfolio analysis, and others. In recent times, an increased importance has been given to computer technology in financial research. Different computer languages and

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programming techniques are important tools for empirical research in finance. Hence, simulation, machine learning, big data, and financial payments are explored in this handbook. Led by Distinguished Professor Cheng Few Lee from

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Rutgers University, this multi-volume work integrates theoretical, methodological, and practical issues based on his years of academic and industry experience.

Partial Differential Equations

Differential Equations For Dummies

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