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Based on course notes  
from over twenty years  
of teaching engineering  
and physical sciences at  
Michigan Technological  
University, Tomas Co's  
engineering mathematics

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textbook is rich with  
examples, applications  
and exercises. Professor  
Co uses analytical  
approaches to solve  
smaller problems to  
provide mathematical

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insight and  
understanding, and  
numerical methods for  
large and complex  
problems. The book  
emphasises applying  
matrices with strong

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attention to matrix  
structure and  
computational issues  
such as sparsity and  
efficiency. Chapters on  
vector calculus and  
integral theorems are

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used to build coordinate-free physical models with special emphasis on orthogonal co-ordinates. Chapters on ODEs and PDEs cover both analytical and numerical

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approaches. Topics on analytical solutions include similarity transform methods, direct formulas for series solutions, bifurcation analysis,

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formulas,  
shocks/rarefaction and  
others. Topics on  
numerical methods  
include stability  
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Mathematics remains a  
core area of  
engineering. Formulating  
and analyzing  
mathematical models of  
basic engineering  
systems is an essential

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skill that all  
engineering students  
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acquire. This book will  
serve as an excellent  
introduction to linear  
mathematics for

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engineering students,  
both seniors and  
graduate students. It is  
the result of a  
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whom have taught classes on modelling and applied mathematics. It provides a broad collection of chemical engineering modelling examples to train students in model

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formulation and model  
simplification as well  
as give a thorough  
coverage of the  
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to analyze and solve  
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and Modeling for Chemical  
Engineers. There are many  
examples provided as homework

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in the original text and the solution manual provides detailed solutions of many of these problems that are in the parent book Applied Mathematics and Modeling for Chemical Engineers. Part II covers applications in greater detail. The three transport

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phenomena--heat, mass, and momentum transfer--are treated in depth through simultaneous (or parallel) developments.

Der 3-bändige Grundkurs für Studienanfänger verbindet die mathematische Analysis (Soul) mit numerischer Berechnung

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(Body) und einer Fülle von Anwendungen. Die Autoren haben die Inhalte im Unterricht erprobt. Band 1 behandelt die Grundlagen der Analysis.

A - L

Band 2: Integrale und Geometrie  
in  $\mathbb{R}^n$

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Journal of Approximation Theory  
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Applied Mathematics and  
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Mathematical Understanding of  
Chemical Engineering Systems is a  
collection of articles that covers the

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mathematical model involved in the practice of chemical engineering. The materials of the book are organized thematically into section. The text first covers the historical development of chemical engineering, and then proceeds to tackling a much more

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technical and specialized topics in the subsequent sections. The second section talks about the physical separation process, while the third section deals with stirred tank stability and control. Next, the book tackles polymerization and particle problems.

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Section 6 discusses empty tubular and fixed-bed catalytic reactors, while Section 7 details fluid-bed reactors and coal combustion. In the last two sections, the text presents mathematical and miscellaneous papers. The book will be most useful to researchers and

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practitioners of chemical engineering.  
Mathematicians and chemists will also  
benefit from the text.

Focusing on the application of  
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Sturm – Liouville problems both in the regular and singular types

Demonstrates the use of Euler and modified Euler methods alongside the Runge – Kutta order-four method

Inserts more depth on specific applications such as nonhomogeneous

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cases of separation of variables Adds a section on special types of matrices such as upper- and lower-triangular matrices Presents a justification for Fourier-Bessel series in preference to a complicated proof Incorporates examples related to biomedical

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engineering applications Illustrates the use of the predictor-corrector method Expands the problem sets of numerous chapters Applied Mathematical Methods for Chemical Engineers, Third Edition uses worked examples to expose several mathematical methods

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engineering, biological and biomedical engineering, food processing, and a variety of diffusional problems to demonstrate the real-world value of the mathematical methods. Emphasis is placed on the background and physical understanding of the problems to

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aus drei Bänden sowie Computer-Software. Das Projekt ist begründet in der Computerrevolution, die ihrerseits völlig neue Möglichkeiten des wissenschaftlichen Rechnens in der Mathematik, den Naturwissenschaften und im Ingenieurwesen eröffnet hat. Es besteht aus einer Synthese der

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mathematischen Analysis (Soul) mit  
der numerischen Berechnung (Body)  
sowie den Anwendungen. Die Bände I-  
III geben eine moderne Version der  
Analysis und der linearen Algebra  
wieder, einschließlich konstruktiver  
numerischer Techniken und  
Anwendungen, zugeschnitten auf

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Anfängerprogramme im  
Maschinenbau und den  
Naturwissenschaften. Weitere Bände  
behandeln Themen wie z.B.  
dynamische Systeme,  
Strömungsdynamik,  
Festkörpermechanik und  
Elektromagnetismus. Dieser Band

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entwickelt das Riemann-Integral, um eine Funktion zu einer gegebenen Ableitung zu bestimmen. Darauf aufbauend werden Differentialgleichungen und Anfangswertprobleme mit einer Vielzahl anschaulicher Anwendungen behandelt. Die lineare Algebra wird auf

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n-dimensionale Räume

verallgemeinert, wobei wiederum dem praktischen Umgang und numerischen Lösungstechniken besonderer Platz eingeräumt wird. Die Autoren sind führende Experten im Gebiet des wissenschaftlichen Rechnens und haben schon mehrere erfolgreiche

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Bücher geschrieben. "[.....] Oh, by the way, I suggest immediate purchase of all three volumes!" The Mathematical Association of America Online, 7.7.04  
Despite the fact that fluid dynamics and filtration through porous media and mathematics, there are classical research areas in engineering,

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physics, are still many industrial processes that require the study of new mathematical models for flows of particular complexity, due to the peculiar properties of the systems involved. The aim of this book is to provide a number of examples showing how frequently such

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situations arise in various branches of industrial technology. The selection of the subjects was motivated not only by their industrial relevance and mathematical interest. What I had in mind was a collection of problems having a really distinctive character, thus bringing some fresh air into one

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of the oldest and most revered domains of applied mathematics. The incredible richness of nonstandard flow problems in industrial applications has always been, and still is, a constant surprise to me. Therefore I tried to offer a very large spectrum of subjects, with special attention

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devoted to those problems in which the modeling phase is far from being obvious, and the mathematical content is absolutely nontrivial. With such a view to diversity, topics have been selected from a variety of sources (such as glass industry, polymers science, coffee brewing, fuels

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pipelining), and contributors from different backgrounds (mathematics, physics, chemical engineering) have been included. Consequently, the mathematical nature of the problems formulated spans over a large range, so that their theoretical investigation and numerical computation require a

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variety of different techniques.

This book combines the classical analysis and modern applications of applied mathematics for chemical engineers. The book introduces traditional techniques for solving ordinary differential equations (ODEs), adding new material on approximate

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solution methods such as perturbation techniques and elementary numerical solutions. It also includes analytical methods to deal with important classes of finite-difference equations. The last half discusses numerical solution techniques and partial differential equations (PDEs). The reader will then

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be equipped to apply mathematics in the formulation of problems in chemical engineering. Like the first edition, there are many examples provided as homework and worked examples.

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Mathematical Methods in Chemical  
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This new book brings together innovative research, new concepts, and novel developments in the application of informatics tools for applied chemistry and computer science. It presents a modern approach to modeling and calculation and also looks at experimental design in applied chemistry and chemical

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engineering. The volume discusses the developments of advanced chemical products and respective tools to characterize and predict the chemical material properties and behavior. Providing numerous comparisons of different methods with one another and with different experiments, not only does

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this book summarize the classical theories, but it also exhibits their engineering applications in response to the current key issues. Recent trends in several areas of chemistry and chemical engineering science, which have important application to practice, are discussed. Applied Chemistry and Chemical Engineering:

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Volume 1: Mathematical and Analytical Techniques provides valuable information for chemical engineers and researchers as well as for graduate students. It demonstrates the progress and promise for developing chemical materials that seem capable of moving this field from laboratory-scale prototypes to actual

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industrial applications. Volume 2 will focus principles and methodologies in applied chemistry and chemical engineering.

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frequently encountered in sophisticated chemical engineering domains. The volume provides a collection of models illustrating the power and richness of the mathematical sciences in supplying insight into the operation of important real-world systems. It fills a gap within modeling texts, focusing on applications across a

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broad range of disciplines. The first part of the book discusses the general components of the modeling process and highlights the potential of modeling in the production of nanofibers. These chapters discuss the general components of the modeling process and the evolutionary nature of successful model building in the

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electrospinning process. Electrospinning is the most versatile technique for the preparation of continuous nanofibers obtained from numerous materials. This section of book summarizes the state-of-the art in electrospinning as well as updates on theoretical aspects and applications. Part 2 of the book presents a

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*respected predecessor, this book uses worked examples to illustrate several mathematical methods that are essential in successfully solving process engineering problems. The book first provides an introduction to differential equations that are common to chemical engineering, followed by examples of*

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