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William G. Gray, Anton Leijnse, Randall L. Kolar, Cheryl A. Blain, 2020-01-29 *Mathematical Tools for Changing Scale in the Analysis of Physical Systems* presents a new systematic approach to changing the spatial scale of the differential equations describing science and engineering problems. It defines vectors, tensors, and differential operators in arbitrary orthogonal coordinate systems without resorting to conceptually difficult Riemann-Christoffel tensor and contravariant and covariant base vectors. It reveals the usefulness of generalized functions for indicating curvilinear, surficial, or spatial regions of integration and for transforming among these integration regions. These powerful mathematical tools are harnessed to provide 128 theorems in tabular format, most not previously available in the literature, that transform time derivative and del operators of a function at one scale to the corresponding operators acting on the function at a larger scale. *Mathematical Tools for Changing Scale in the Analysis of Physical Systems* also provides sample applications of the theorems to obtain continuum balance relations for arbitrary surfaces, multiphase systems, and problems of reduced dimensionality. The mathematical techniques and tabulated theorems ensure the book will be an invaluable analysis tool for practitioners and researchers studying balance equations for systems encountered in the fields of hydraulics, hydrology, porous media physics, structural analysis, chemical transport, heat transfer, and continuum mechanics.

Engineering Mathematics with MATLAB Won Y. Yang et. al, 2019-02-01

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Differential Equations in Engineering and Mechanics Kam Tim Chau, 2017-09-22 This gives comprehensive coverage of the essential differential equations students they are likely to encounter in solving engineering and mechanics problems across the field alongside a more advance volume on applications This first volume covers a very broad range of theories related to solving differential equations mathematical preliminaries ODE n th order and system of 1st order ODE in matrix form PDE 1st order 2nd and higher order including wave diffusion potential biharmonic equations and more Plus more advanced topics such as Green s function method integral and integro differential equations asymptotic expansion and perturbation calculus of variations variational and related methods finite difference and numerical methods All readers who are concerned with and interested in engineering mechanics problems climate change and nanotechnology will find topics covered in these books providing valuable information and mathematics background for their multi disciplinary research and education **Complex Analyses in Engineering, Science and Technology** S. G. Ahmed, 2015-04-27 Complex Analysis for Science and Technology is a textbook for undergraduate and postgraduate students undertaking science technology engineering and mathematics STEM courses The book begins with an introduction to basic complex numbers followed by chapters covering complex functions integrals transformations and conformal mapping Topics such as complex series and residue theory are also covered Key features of this textbook include simple easy to understand explanations of relevant concepts a wide range of simple and complex examples several figures where appropriate **Books in Print** , 1994

Interactive Differential Equations Workbook Beverly Henderson West, 1997 Accompanies a CD ROM containing over 90 tools and applications of differential equations drawn from engineering physics chemistry and biology Covers first and second order differential equations linear and nonlinear systems Laplace transforms and series solutions □□□□□□□□ , 1992

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A Very Applied First Course in Partial Differential Equations Michael K. Keane,2002 This extremely readable book illustrates how mathematics applies directly to different fields of study Focuses on problems that require physical to mathematical translations by showing readers how equations have actual meaning in the real world Covers fourier integrals and transform methods classical PDE problems the Sturm Liouville Eigenvalue problem and much more For readers interested in partial differential equations

The Cumulative Book Index ,1994 A world list of books in the English language

Proceedings of the ... International Conference on Technology in Collegiate Mathematics ,1995

Forthcoming Books Rose Arny,2003-04 *Books in Print Supplement* ,2002 Advanced Engineering Mathematics Merle C. Potter,Jack L. Lessing,Edward F. Aboufadel,2019-06-14 This book is designed to serve as a core text for courses in advanced engineering mathematics required by many engineering departments The style of presentation is such that the student with a minimum of assistance can follow the step by step derivations Liberal use of examples and homework problems aid the student in the study of the topics presented Ordinary differential equations including a number of physical applications are reviewed in Chapter One The use of series methods are presented in Chapter Two Subsequent chapters present Laplace transforms matrix theory and applications vector analysis Fourier series and transforms partial differential equations numerical methods using finite differences complex variables and wavelets The material is presented so that four or five subjects can be covered in a single course depending on the topics chosen and the completeness of coverage Incorporated in this textbook is the use of certain computer software packages Short tutorials on Maple demonstrating how problems in engineering mathematics can be solved with a computer algebra system are included in most sections of the text Problems have been identified at the end of sections to be solved specifically with Maple and there are computer laboratory activities which are more difficult problems designed for Maple In addition MATLAB and Excel have been included in the solution of problems in several of the chapters There is a solutions manual available for those who select the text for their course This text can be used in two semesters of engineering mathematics The many helpful features make the text relatively easy to use in the classroom

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