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Erwin Kreyszig



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introduces engineers and computer scientists to advanced math topics as they relate to practical problems It goes into the following topics at great depth differential equations partial differential equations Fourier analysis vector analysis complex analysis and linear algebra differential equations

Modern Engineering Mathematics Riyaz Ahmad Khan, 2018-01-01 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

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Integral Methods in Low-Frequency Electromagnetics Pavel Solin, Ivo Dolezel, Pavel Karban, Bohus Ulrych, 2009-08-11 A modern presentation of integral methods in low frequency electromagnetics This book provides state of the art knowledge on integral methods in low frequency electromagnetics Blending theory with numerous examples it introduces key aspects of the integral methods used in engineering as a powerful alternative to PDE based models Readers will get complete coverage of The electromagnetic field and its basic characteristics An overview of solution methods Solutions of electromagnetic fields by integral expressions Integral and integrodifferential methods Indirect solutions of electromagnetic fields by the boundary element method Integral equations in the solution of selected coupled problems Numerical methods for integral equations All computations presented in the book are done by means of the authors own codes and a significant amount of their own results is included At the book s end they also discuss novel integral techniques of a higher order of accuracy which are representative of the future of this rapidly advancing field Integral Methods in Low Frequency Electromagnetics is of immense interest to members of the electrical engineering and applied mathematics communities ranging from graduate students and PhD candidates to researchers in academia and practitioners in industry

Bessel Functions K.B.M Nambudiripad, 1933-02-01 After presenting the theory in engineers language without the unfriendly abstraction of pure mathematics several illustrative examples are discussed in great detail to see how the various functions of the Bessel family enter into the solution of technically important problems Axisymmetric vibrations of a circular membrane oscillations of a uniform chain heat transfer in circular fins buckling of columns of varying cross section vibrations of a circular plate and current density in a conductor of circular cross section are considered The problems are formulated purely from physical considerations using for example Newton s law of motion Fourier s law of heat conduction electromagnetic field equations etc Infinite series expansions recurrence relations manipulation of expressions involving Bessel functions orthogonality and expansion in Fourier Bessel series are also covered

in some detail Some important topics such as asymptotic expansions generating function and Sturm Liouville theory are relegated to a last chapter Perhaps the reader will see how physical ideas are beautifully incorporated into mathematics and vice versa and appreciate the compelling beauty of applied mathematics in action e This book beautifully blends mathematics and engineering and is a must read for advanced engineering students e **Ordinary Differential Equations for**

Engineers Ali Ümit Keskin, 2018-09-01 This monograph presents teaching material in the field of differential equations while addressing applications and topics in electrical and biomedical engineering primarily The book contains problems with varying levels of difficulty including Matlab simulations The target audience comprises advanced undergraduate and graduate students as well as lecturers but the book may also be beneficial for practicing engineers alike

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