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Applied Mathematical Modelling Of Engineering Problems

S. Graham Kelly



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Advanced Engineering Mathematics with Modeling Applications S. Graham Kelly, 2008-12-05 A graduate level text this book presents a unique combination of theoretical mathematics and engineering applications It demonstrates the relationship between advanced mathematics and engineering principles introduces engineering mathematics at a theoretical level and includes functional analysis topics such as vector spaces inner products and norms and develops advanced mathematical methods from this foundation The author does not focus on proving theorems but on the application of the theorems to the solution of engineering problems In sum the book provides an overview of the principles and techniques of advanced mathematics as applied to mechanical engineering problems

Computing and Simulation for Engineers Ziya Uddin, Mukesh Kumar Awasthi, Rishi Asthana, Mangey Ram, 2022-06-29 This book presents the reader with comprehensive insight into various kinds of mathematical modeling and numerical computation for problems arising in several branches of engineering such as mechanical engineering computer science engineering electrical

engineering electronics and communication engineering and civil engineering The book Discusses topics related to clean and green energy production and storage Bridges the gap between core theory and costly industrial experiments Covers advanced biomechanics and nanodrug delivery topics Explores diversified applications of mathematical techniques to solve practical engineering problems The text in this book emphasizes mathematical treatment of soft computing image and signal processing fluid flows in various geometries biomechanics biological modeling a mathematical description of the solar cell analytical and numerical treatment of problems in fracture mechanics and antenna design modeling It also discusses the numerical computations of biomechanics problems and problems arising in cryptography The text further covers optimization techniques that are useful for real world problems This material is primarily written for graduate students and academic researchers in a number of engineering fields including electrical electronics and communication industrial manufacturing mechanical computer science and mathematics

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