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this book includes 275 solved problems

archimedes to hawking takes the reader on a journey across the centuries as it explores the eponymous physical laws from archimedes law of buoyancy and kepler s laws of planetary motion to heisenberg s uncertainty principle and hubble s law of cosmic expansion whose ramifications have profoundly altered our everyday lives and our understanding of the universe throughout this fascinating book clifford pickover invites us to share in the amazing adventures of brilliant quirky and passionate people after whom these laws are named these lawgivers turn out to be a fascinating diverse and sometimes eccentric group of people many were extremely versatile polymaths human dynamos with a seemingly infinite supply of curiosity and energy and who worked in many different areas in science others had non conventional educations and displayed their unusual talents from an early age some experienced resistance to their ideas causing significant personal anguish pickover examines more than 40 great laws providing brief and cogent introductions to the science behind the laws as well as engaging biographies of such scientists as newton faraday ohm curie and planck throughout he includes fascinating little known tidbits relating to the law or lawgiver and he provides cross references to other laws or equations mentioned in the book for several entries he includes simple numerical examples and solved problems so that readers can have a hands on understanding of the application of the law a sweeping survey of scientific discovery as well as an intriguing portrait gallery of some of the greatest minds in history this superb volume will engage everyone interested in science and the physical world or in the dazzling creativity of these brilliant thinkers

for many years the human being has been trying in all ways to recreate the complex mechanisms that form the human body such task is extremely complicated and the results are not totally satisfactory however with increasing technological advances based on theoretical and experimental researches man gets in a way to copy or to imitate some systems of the human body these researches not only intended to create humanoid robots great part of them constituting autonomous systems but also in some way to offer a higher knowledge of the systems that form the human body objectifying possible applications in the technology of rehabilitation of human beings gathering in a whole studies related not only to robotics but also to biomechanics biomimmetics cybernetics among other areas this book presents a series of researches inspired by this ideal carried through by various researchers worldwide looking for to analyze and to discuss diverse subjects related to humanoid robots the presented contributions explore aspects about robotic hands learning language vision and locomotion

an effective text must be well balanced and thorough in its approach to a topic as

expansive as vibration and mechanical vibration is just such a textbook written for both senior undergraduate and graduate course levels this updated and expanded second edition integrates uncertainty and control into the discussion of vibration outlining basic concepts before delving into the mathematical rigors of modeling and analysis mechanical vibration analysis uncertainties and control second edition provides example problems end of chapter exercises and an up to date set of mini projects to enhance students computational abilities and includes abundant references for further study or more in depth information the author provides a matlab primer on an accompanying cd rom which contains original programs that can be used to solve complex problems and test solutions the book is self contained covering both basic and more advanced topics such as stochastic processes and variational approaches it concludes with a completely new chapter on nonlinear vibration and stability professors will find that the logical sequence of material is ideal for tailoring individualized syllabi and students will benefit from the abundance of problems and matlab programs provided in the text and on the accompanying cd rom respectively a solutions manual is also available with qualifying course adoptions

this book introduces students to vector analysis a concise way of presenting certain kinds of equations and a natural aid for forming mental pictures of physical and geometrical ideas students of the physical sciences and of physics mechanics electromagnetic theory aerodynamics and a number of other fields will find this a rewarding and practical treatment of vector analysis key points are made memorable with the hundreds of problems with step by step solutions and many review questions with answers

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