

Understanding Mechanics2 Ed

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this second edition is an updated version of an introductory level textbook intended for students who are interested in understanding the mechanical properties of smooth muscle compared with

skeletal and cardiac muscles smooth muscle is the least understood in terms of its contraction mechanism and the structure of its contractile apparatus nevertheless it is an important tissue that is vital in many organ functions such as blood pressure control intestinal peristalsis and the emptying of the bladder dysfunction of the muscle has been implicated in many diseases such as high blood pressure asthma and overactive bladders this is the only book length treatment of functional models of a variety of smooth muscle behaviors with their corresponding mathematical descriptions and offers an easy to follow step by step mathematical derivation that will help students to appreciate the muscle cell as a fine tuned aggregate of mechanisms governed by the fundamental laws of physics in addition to providing a detailed description of the known subcellular structure and mechanical function of the contractile apparatus of smooth muscle it also covers experimentation techniques instrumentation and data analysis the book is a must have information source for anyone interested in smooth muscle cell ultrastructure physiology biochemistry and pharmacology

this book provides a comprehensive account of basic concepts of quantum mechanics in a coherent manner the book is self contained and not only covers basic concepts in quantum mechanics but also provides a basis for applications in atomic and laser physics nuclear and particle physics and condensed matter physics it also covers relativistic quantum mechanics in particular the dirac equation and its applications

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this is the solution manual for riazuddin s and fayyazuddin s quantum mechanics 2nd edition the questions in the original book were selected with a view to illustrate the physical concepts and use of mathematical techniques which show their universality in tackling various problems of different physical origins this solution manual contains the text and complete solution of every problem in the original book this book will be a useful reference for students looking to master the concepts introduced in quantum mechanics 2nd edition

the second edition provides an update of the recent developments in classical and computational solid mechanics the structure of the book is also updated to include five new areas fundamental principles of thermodynamics and coupled thermoelastic constitutive equations at large deformations functional thermodynamics and thermoviscoelasticity thermodynamics with internal state variables and thermo elasto viscoplasticity electro thermo viscoelasticity viscoplasticity and meshless method these new topics are added as self contained sections or chapters many books in the market do not cover these topics this invaluable book has been written for engineers and engineering scientists in a style that is readable precise concise and practical it gives the first priority to the formulation of problems presenting the classical results as the gold standard and the numerical approach as a tool for obtaining solutions

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