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provides a thorough understanding of the principles and applications of engineering mechanics beginning with an introduction to the subject the book provides a detailed treatment of systems of forces and explains the concepts of centroid and centre of gravity moment of inertia virtual work friction kinematics of particle and motion of projectiles it also discusses the laws of motion power and energy and collision of elastic bodies in dynamics mechanical engineering in biomedical applications the book explores the latest research and developments related to the interdisciplinary field of biomedical and mechanical engineering offering insights and perspectives on the research key technologies and mechanical engineering techniques used in biomedical applications the book is divided into several sections that cover different aspects of mechanical engineering in biomedical research the first section focuses on the role of additive manufacturing technologies rehabilitation in healthcare applications and artificial recreation of human organs the section also covers the advances risks and challenges of bio 3d printing the second section presents insight into biomaterials including their properties applications and fabrication techniques the section also covers the use of powder metallurgy methodology and techniques of biopolymer and bio ceramic coatings on prosthetic implants the third section covers biofluid mechanics including the mechanics of fluid flow within our body the mechanical aspects of human synovial fluids and the design of medical devices for fluid flow applications the section also covers the use of computational modeling to study the blockage of carotid arteries the final section elaborates on soft robotic manipulation for use in medical sciences audience the book provides practical insights and applications for mechanical engineers biomedical engineers medical professionals and researchers working on the design and development of biomedical devices and implants

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