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this textbook integrates the classic fields of mechanics statics dynamics and strength of materials using examples from biology and medicine the book is excellent for teaching either undergraduates in biomedical engineering programs or health care professionals studying biomechanics at the graduate level extensively revised from a successful third edition fundamentals of biomechanics features a wealth of clear illustrations numerous worked examples and many problem sets the book provides the quantitative

perspective missing from more descriptive texts without requiring an advanced background in mathematics it will be welcomed for use in courses such as biomechanics and orthopedics rehabilitation and industrial engineering and occupational or sports medicine this book introduces the fundamental concepts principles and methods that must be understood to begin the study of biomechanics reinforces basic principles of biomechanics with repetitive exercises in class and homework assignments given throughout the textbook includes over 100 new problem sets with solutions and illustrations

mechanics using matlab an introductory guide bridges the gap between fundamental principles of mechanics and their practical implementation using matlab a powerful computational tool widely used in engineering and scientific applications we offer an invaluable resource for students educators and professionals seeking to deepen their understanding of classical mechanics and enhance their problem solving skills through computational techniques we begin by laying a solid foundation in core concepts of mechanics including kinematics dynamics and energy principles through clear explanations and illustrative examples we guide readers through essential theories and equations governing the motion of particles and rigid bodies emphasis is placed on developing a conceptual understanding of the underlying physics reinforced through matlab based exercises and simulations one of the key strengths of our book lies in its integration of theory with practical application each chapter elucidates the theoretical framework and demonstrates how to implement it computationally using matlab scripts and functions topics covered include particle dynamics projectile motion newton s laws of motion circular motion conservation principles rotational dynamics oscillations and orbital mechanics throughout the text matlab code snippets are provided alongside explanations allowing readers to gain hands on experience in solving mechanics problems numerically this interactive approach reinforces theoretical concepts and equips readers with valuable computational skills with worked examples and practice problems mechanics using matlab an introductory guide challenges readers and reinforces their understanding this book serves as a practical reference for engineers scientists and researchers in fields where mechanics plays a crucial role

this book highlights an analytical solution for the dynamics of axially rotating objects it also presents the theory of gyroscopic effects explaining their physics and using mathematical models of euler s form for the motion of movable spinning objects to demonstrate these effects the major themes and approaches are represented by the spinning disc and the action of the system of interrelated inertial torques generated by the centrifugal and coriolis forces as well as the change in the angular momentum the interrelation of inertial torques is based on the dependency of the angular velocities of the motions of the spinning objects around axes by the principle of mechanical energy conservation these kinetically interrelated torques constitute the fundamental principles of the mechanical gyroscope theory that can be used for any rotating objects of different designs like rings cones spheres paraboloids

propellers etc lastly the mathematical models for the gyroscopic effects are validated by practical tests this book is highlighted in its already third edition the new edition comprises many new sections for several chapters or new chapters the most important ones are chapter 3 includes a mathematical model for the section inertia torques acting on the spinning annulus and thin ring the latter does not have a full solution because the handbooks comprise simplified parameters that cannot be used for an exact solution chapter 4 offers mathematical model for the arbitrary disposition of the spinning object in space that shows the action of the additional four inertial torques acting on the third axis and new dependencies of gyroscope motions chapter 7 now presents mathematical model for the gyroscope nutation with a full solution the known mathematical model presents a partial solution due to the complexity of the problem

this comprehensive textbook on healthcare organizational behavior and management uniquely bridges theory and practice directing significant attention toward operationalization in health and medical settings this blend of theory and practice differentiates the content of this book from that of related academic and professional books that tend to discuss theory at length with limited attention being directed toward practical applications this approach ultimately affords readers with a working knowledge of the subject matter which must be mastered to successfully operate healthcare organizations and a real world skill set for use in practice the contents of the text encompass a fairly broad spectrum of organizational behavior and management within the context of the healthcare industry and its associated organizations among the topics covered leadership in health and medicine motivation in health and medicine communication in health and medicine strategy in health and medicine ethics and social responsibility in health and medicine organizational culture in health and medicine groups and teams in health and medicine power and politics in health and medicine beyond its efficient presentation of core facets of organizational behavior and management the book features practical insights in each chapter from the authors experiences as leaders at a health system these passages share real world insights often involving unique applications innovative thinking and other creative perspectives from practice these viewpoints are invaluable for helping readers to ground the theoretical overviews presented in each chapter bolstering knowledge and understanding a glossary of organizational behavior and management terminology is also included organizational behavior and management in health and medicine serves as a primer featuring principles and practices with intensive application and operational guidance the text with its learning objectives chapter summaries key terms and exercises is ideally suited for professors and students of health administration medicine nursing and allied health the book also can serve as a refresher for healthcare executives and managers e g administrators nurses physicians and as a useful reference for anyone with an interest in learning about administrative practices in health and medical settings

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