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robotics automation and mechatronics with particular emphasis on technical challenges associated with varied applications such as biomedical application industrial automation surveillance and sustainable mobility **Engineering Mechanics**, Statics J. L. Meriam, L. G. Kraige, 2001-08-28 **Engineering Metrology for Pedestrian Falls Prevention and Protection** In-Ju Kim, 2022-03-25 This book explains how to improve the validity reliability and repeatability of slip resistance assessments amongst a range of shoes floors and environments from an engineering metrology viewpoint covering theoretical and experimental aspects of slip resistance mechanics and mechanisms Pedestrian falls resulting from slips or falls are one of the foremost causes of fatal and non fatal injuries that limit people s functionality There have been prolonged efforts globally to identify and understand their main causes and reduce their frequency and severity This book deals with large volumes of information on tribological characteristics such as friction and wear behaviours of the shoes and floors and their interactive impacts on slip resistance performances Readers are introduced to theoretical concepts and models and collected evidence on slip resistance properties amongst a range of shoe and floor types and materials under various ambulatory settings These approaches can be used to develop secure design strategies against fall incidents and provide a great step forward to build safer shoes floors and walking working environments for industries and communities around the world The book includes many case studies The British National Bibliography Arthur James Wells, 1998 Climbing and Walking Robots Manuel Armada, Pablo González de Santos, 2006-01-16 Interest in Education ,1990 climbing and walking robots CLAWAR has increased remarkably over recent years Novel solutions for complex and very diverse application fields exploration intervention in severe environments personal services emergency rescue operations transportation entertainment medical etc have been anticipated by great progress in this area of robotics This book contains the proceedings of the 7th Climbing and Walking Robots 2004 CLAWAR 2004 Conference offering the international scientific community one of the most excellent forums for academics researchers and industrialists interested in this motivating area of climbing and walking robots It provides a wide forum of original state of the art contributions from various industrial and new emerging research fields presenting a full picture of climbing and walking robots The conference held in Madrid Spain September 22 24 2004 was organized by the Thematic Network CLAWAR 2 and funded by the European Commission under McGraw-Hill Encyclopedia of Science & Technology: Sor-sup ,2002 This resource provides the GROWTH Program in depth coverage of major scientific and technological developments It offers illustrated detailed coverage of the discoveries advances and milestones that continue to shape our lives Subject Guide to Books in Print ,1996 **Engineering Mechanics, Dynamics, Study Guide** J. L. Meriam, L. G. Kraige, 1997-03-21 This concise and authoritative book emphasizes basic principles and problem formulation It illustrates both the cohesiveness of the relatively few fundamental ideas in this area and the great variety of problems these ideas solve All of the problems address principles and procedures inherent in the design and anlysis of engineering structures and mechanical systems with many of the problems referring explicitly to

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