

Metrology of Pedestrian Locomotion and Slip Resistance

Mark I. Marpet & Michael A. Sapienza

STP 1424



M E T R O L O G Y   O F

# ***Pedestrian Locomotion and Slip Resistance***

***Mark I. Marpet  
Michael A.  
Sapienza***  
EDITORS



**STP 1424**

# Metrology Of Pedestrian Locomotion And Slip Resistance

**Richard W. McLay, Robert N. Anderson**



## **Metrology Of Pedestrian Locomotion And Slip Resistance:**

*Metrology of Pedestrian Locomotion and Slip Resistance* Mark I. Marpet, Michael A. Sapienza, 2003 Papers from the June 2001 Symposium on Metrology of Pedestrian Locomotion and Slip Resistance present the latest research findings on both how much friction pedestrians require during ambulation and how to measure the friction available between the walkway surface and the shoe bottom Some specific

**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

**Pedestrian Fall Safety Assessments** In-Ju Kim, 2017-04-25 This book examines pedestrian shoe floor slip resistance from an engineering standpoint in order to better understand friction and wear behavior This analysis includes an extensive investigation into the surface properties of shoes and floor and the measurement of dynamic friction and other mechanical and physical aspects of shoe floor tribology Lastly the book proposes a measurement concept for the identification and classification of operational floor surfaces under a range of different conditions Novel techniques and methods are proposed that can improve the reliability of slip resistance assessments The current state of knowledge is critically examined and discussed from a tribological perspective including aspects like friction wear lubrication and the mechanical behavior of shoes floors and their wider environment Further the book reports on extensive experimental investigations into the topographical characteristics of shoe and floor surfaces and how they affect slip resistance Slips resulting in pedestrian falls are a major cause of injuries and deaths for all age groups This important book provides essential insights for researchers practicing engineers and public safety officials wishing to learn about how the risk of pedestrian slips can be assessed and understood

**International Encyclopedia of Ergonomics and Human Factors - 3 Volume Set** Informa Healthcare, Waldemar Karwowski, 2006-03-15 The previous edition of the International Encyclopedia of Ergonomics and Human Factors made history as the first unified source of reliable information drawn from many realms of science and technology and created specifically with ergonomics professionals in mind It was also a winner of

the Best Reference Award 2002 from the Engineering Libraries

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### **Slip and Fall Prevention** Steven Di Pilla, 2003-06-26

The average cost of a worker fall is 12 470 increasing to over 26 000 when lost production and other costs are factored in At a profit margin of 10% more than 250 000 of revenue needs to be generated to cover a single slip fall loss Costs are higher for falls sustained by the public Slip and Fall Prevention A Practical Handbook resp **Gait Analysis** Jacquelin Perry, Judith Burnfield, 2024-06-01 The extensive and ground breaking work of Dr Jacquelin Perry is encompassed and detailed in the world renowned text Gait Analysis Normal and Pathological Function The medical healthcare and rehabilitation professions key text for over 18 years on gait Now available in a much anticipated New Second Edition Dr Jacquelin Perry is joined by Dr Judith Burnfield to present today s latest research findings on human gait Gait Analysis Second Edition has been updated and expanded to focus on current research more sophisticated methods and the latest equipment available to analyze gait What is New A new chapter covering running Synergy of motion between the two limbs A new chapter covering pediatrics A new chapter covering stair negotiation New and updated clinical examples A section on power inside each chapter covering normal gait New methods and equipment to analyze gait This Second Edition to Gait Analysis offers a re organization of the chapters and presentation of material in a more user friendly yet comprehensive format Essential information is provided describing gait functions and clinical examples to identify and interpret gait deviations Learning is further reinforced with images and photographs Features Six sections cover the fundamentals normal gait pathological gait clinical considerations

advanced locomotor functions and gait analysis systems Clinical significance of the most common pathological gait patterns Over 470 illustrations and photographs as well as 40 tables Patient examples to illustrate elements of normal and pathological gait Tens of thousands of orthopedic orthotic and prosthetic physical therapy and other rehabilitation professionals have kept a copy of Gait Analysis by their side for over 18 years join the thousands more who will bring the Second Edition into their clinics classrooms and personal collections      **Friction Science and Technology** Peter J.

Blau,2008-10-20 Should have broad appeal in many kinds of industry ranging from automotive to computers basically any organization concerned with products having moving parts David A Rigney Materials Science and Engineering Department Ohio State University Columbus USA In Depth Coverage of Frictional Concepts Friction affects so many aspects of daily l

**Slip, Trip, and Fall Prevention** Steven Di Pilla,2016-04-19 A comprehensive reference for the prevention control and mitigation of slip trip and fall accidents this volume covers standards and best practices relating to facility design effective management control programs test methods and standards relating to pedestrian safety and slip resistance methods Providing information on slip fall accident reporting investigation and mitigation it includes checklists handouts case studies rich online resources and an extensive bibliography      Forensic Medicine of the Lower Extremity Jeremy Rich,Dorothy E. Dean,Robert H. Powers,2007-10-28 Publius Syrus stated back in 42 B C You cannot put the same shoe on every foot Maxim 596 Though written long before the advent of forensic science Syrus maxim summarizes the theme of Forensic Medicine of the Lower Extremity Human Identification and Trauma Analysis of the Thigh Leg and Foot Put simply the lower extremity is a tremendously variable anatomic region This variation is beneficial to forensic experts Differences in the leg and foot can be used to establish individual identity Analysis of damage to the lower limb can be used to reconstruct antemortem perimortem and postmortem trauma As a forensic anthropologist I analyze cases involving decomposed burned m mified mutilated and skeletal remains Many of the corpses I examine are incomplete Occasionally I receive nothing but the legs and feet a lower torso dragged from a river a foot recovered in a city park dismembered drug dealers in plastic bags victims of bombings and airline disasters and the dead commingled in common graves Though the leg and foot contain much that is useful in forensic analysis before this publication investigators faced a twofold problem Little research that focused on the lower extremity was available in the literature and the existing research was published in diverse sources making its location and synthesis a daunting task      **Contemporary Ergonomics 2005** Philip D. Bust,2023-04-21 The broad and developing scope of

ergonomics the application of scientific knowledge to improve peoples interaction with products systems and environments has been illustrated for over twenty years by the books that make up the Contemporary Ergonomics series Presenting the proceedings of the Ergonomics Society s annual conference the series embraces the wide range of topics Individual papers provide insight into current practice present new research findings and form an invaluable reference source The volumes provide a fast track for the publication of suitable papers from international contributors These are chosen on the basis of

abstracts submitted to a selection panel in the autumn prior to the Ergonomics Society's annual conference held in the spring. A wide range of topics are covered in these proceedings including applications of ergonomics: air traffic control, cognitive ergonomics, defence design, environmental ergonomics, ergonomics in schools, hospital ergonomics, inclusive design, methods and tools, occupational health and safety, slips, trips, falls and transport. As well as being of interest to mainstream ergonomists and human factors specialists, Contemporary Ergonomics will appeal to all those who are concerned with people's interactions with their working and leisure environment, including designers, manufacturing and production engineers, health and safety specialists, occupational applied and industrial psychologists and applied physiologists.

*Analyzing Friction in the Design of Rubber Products and Their Paired Surfaces* Robert Horgan Smith, 2008-03-24. Taking a mechanistic approach that emphasizes the physical behavior of rubber as it slides, *Analyzing Friction in the Design of Rubber Products and Their Paired Surfaces* integrates the engineering and scientific evidence demonstrating that the laws of metallic friction do not apply to rubber. The book also presents a newly developed scientific method for measuring friction.

**Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018)** Sebastiano Bagnara, Riccardo Tartaglia, Sara Albolino, Thomas Alexander, Yushi Fujita, 2018-08-04. This book presents the proceedings of the 20th Congress of the International Ergonomics Association IEA 2018 held on August 26-30, 2018 in Florence, Italy. By highlighting the latest theories and models as well as cutting-edge technologies and applications and by combining findings from a range of disciplines including engineering, design, robotics, healthcare, management, computer science, human biology and behavioral science, it provides researchers and practitioners alike with a comprehensive, timely guide on human factors and ergonomics. It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance while at the same time promoting the health, safety and wellbeing of individuals. The proceedings include papers from researchers and practitioners, scientists and physicians, institutional leaders, managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a variety of methodologies, domains and productive sectors. This volume includes papers addressing the following topics: Safety and Health and Slips, Trips and Falls.

*Slips and Falls* Fred M. Johnson, 2008. *Slips and Falls: A new Approach to Friction Measurements* is an explanation of the physics topic of friction and its relation to slips and falls. It clearly guides you through the physics principles involved, measurement techniques, equipment and technology and details their validity and accuracy. It is an essential book for any professional involved in the investigation, research and litigation of slip and fall incidents.

*Physical Rehabilitation* Susan B. O'Sullivan, Thomas J. Schmitz, George Fulk, 2019-01-25. Rely on this comprehensive curriculum spanning text and reference now and throughout your career. You'll find everything you need to know about the rehabilitation management of adult patients from integrating basic surgical, medical and therapeutic interventions to how to select the most appropriate evaluation procedures, develop rehabilitation goals and implement a treatment plan. Online you'll find narrated full-color

video clips of patients in treatment including the initial examination interventions and outcomes for a variety of the conditions commonly seen in rehabilitation settings      Lees' Loss Prevention in the Process Industries Frank

Lees,2012-11-05 Safety in the process industries is critical for those who work with chemicals and hazardous substances or processes The field of loss prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world and Lees is a detailed reference to defending against hazards Recognized as the standard work for chemical and process engineering safety professionals it provides the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing three volume reference instead The process safety encyclopedia trusted worldwide for over 30 years Now available in print and online to aid searchability and portability Over 3 600 print pages cover the full scope of process safety and loss prevention compiling theory practice standards legislation case studies and lessons learned in one resource as opposed to multiple sources      **Measuring**

**Slipperiness** Wen-Ruey Chang,Theodore K. Courtney,Raoul Grongvist,Mark Redfern,2002-12-19 In recent decades injury has begun to gain prominence as a public health and societal problem Slipperiness and slip trip and fall STF injuries are among the greatest obstacles to reducing the injury burden One of the biggest challenges in STF is defining and measuring slipperiness After over half a century of serious research on what slipperiness is and how it can be measured rapid progress has been made in the decade of the 90s Measuring Slipperiness Human Locomotion and Surface Factors provides an overview of basic concepts and definitions of terms related to the measurement of slipperiness from the onset of a foot slide to a gradual loss of balance and a fall The book includes expert group perspectives on human centered biomechanical locomotive perceptual and cognitive and surface centered roughness friction aspects and approaches It addresses the injury burden of slipperiness globally reviews existing slipmeters and summarizes areas of consensus in the field of slipperiness measurement Perhaps the most comprehensive treatment of the subject ever compiled the book contains contributions from North America Europe Asia and Oceania including the National Laboratories of Finland France the U K and the U S A valuable state of the art textbook it provides students with a useful starting point for understanding the many aspects of STF

**American Book Publishing Record** ,2003      Walkway Surfaces: Measurement of Slip Resistance John Senne,1978

**Engineering Standards for Forensic Application** Richard W. McLay,Robert N. Anderson,2018-09-14 Engineering Standards for Forensic Application presents the technologies and law precedents for the application of engineering standards to forensic opinions discussing Fundamentals Disciplines Engineering Standards The Basics and the Future of Forensics The book explores the engineering standard and how it is used by experts to give opinions that are introduced into evidence and how they are assumed to be the best evidence known on the topic at hand Final sections include coverage of NFL Brain

Injuries and the Flint Water Crisis Examples of the use of engineering standards are shown and discussed throughout the work Addresses a wide variety of forensic engineering areas including relevant law Provides a new approach of study that includes the work of both engineers and litigators Contains contributions from over 40 experts offering the reader examples of general forensic methods that are based on reliable engineering practice



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## **Metrology Of Pedestrian Locomotion And Slip Resistance Introduction**

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