

used—not by individuals, of course, but by the flow of the main stream of pedestrian over time. From these observations, a reasonable hypothesis can be constructed to explain what is observed and why the main was used in this way.

Combining various observations on the roads and rivers and excluding them from handrails, markings on adjacent walls, and so on, typically, there are two main tension configurations. These result from *ascent* and *descent*. A third type is apparent where the tread configuration has been totally worn away as a result of the combined *ascent* and *descent* actions. All of these tension patterns occur naturally in response to the mechanical and frictional forces exerted by the motion of many shoes. The resultant damage reflects the way that the actions employed in ascent differ from those of descent.

All of the descriptions of movement and main tension that follow describe conditions for normal stair use. The pattern for a monumental stair, a ship's companionway, or any other stair does not differ in principle, but the changed geometry changes the location and extent of the wear.

5.1.1 *Ascent or Upward*

In ascent, the lower leg swings forward and upward, placing the foot on the next tread. Then the foot is lowered onto the next-but-one tread. As normal climbing speeds and for the accepted range of tread-rise ratios, the foot is positioned so that none or all of its surface lies on the stair tread. This is a generalization; stair climbing is as individual an activity as walking, so the description aims to discuss the average motion that produces tension.

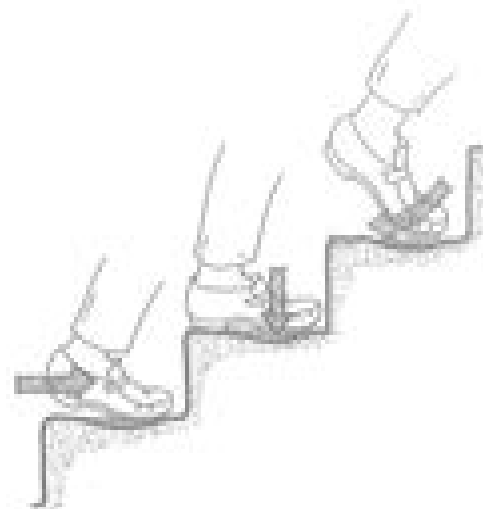
As ascent, the leading foot will obtain a degree of forward motion, which is

checked by the frictional connection between sole and foot (fig. 5.2). Often both the heel and toe make contact with the nosel simultaneously, as most of the resultant frictional tension takes place in the central part of the tread, between the rising and the rise. The location of the tension is conditioned by the depth of the tread. The leg then tilts forward about the ankle. The body's weight shifts forward until the weight transfer onto the other foot on the next step up has been completed. While this is happening and the forward foot is tilting the body upward, the lower foot is pivoting forward onto the nosel (fig. 5.2). It is exerting a backward thrust, which is resisted by the surface of the tread.

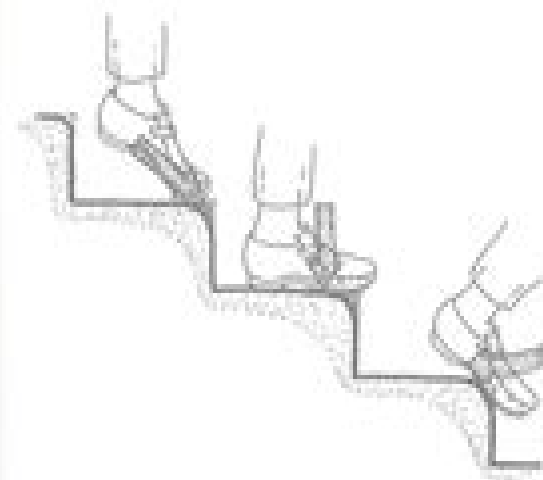
This time, tension is found on the tread in the area where the feet have been. This forms a concave tension pattern that tends toward that shown on the tread in figure 5.2. The actual position of the area of maximum wear due to ascent depends on the dimensions of the tread. It appears close to the nosing in the tread depth decreases.

5.1.2 *Descent or Downward*

Stair descent produces quite a different pattern. As the foot is lowered onto the next step, the toes are pointed down to some degree (fig. 5.3). The foot reaches the step, usually two feet, and the body's weight is transferred to this forward leg. Depending on the tread rise and the speed of descent, the foot may overlap the nosing slightly, or may be positioned within the tread. In either event, the forward impetus of the foot is resisted by the frictional resistance of the front of the tread as the nosing. In due course, the other foot swings past, and it is set down on the next step. The body weight is transferred to it. The rear foot pivots on its toes as the trailing leg heels



5.2 The action of ascent



5.3 The action of descent

The Staircase Studies Of Hazards Falls And Safer Design

Jason Alread, Thomas Leslie



The Staircase Studies Of Hazards Falls And Safer Design:

The Staircase John Templer,1995-03 The first theoretical historical and scientific analysis of one of the most basic and universal building elements the stair The Staircase : Studies of Hazards,Falls,and Safers John Templer,1992 bind 2a2

The Staircase John Templer,1992 John Templer has written the first theoretical historical and scientific analysis of one of the most basic and universal building elements the stair Together these two volumes present a detailed study of stairs and ramps the art and science of their design their history and their hazards For the designer and the art and architectural historian the first volume treats the fascinating history of stairs and their immense influence on the art and science of architecture It is illustrated with more than 100 photographs from around the world and reviews the literature on stairs as well as ladders and railings and ramps from Vitruvius to Venturi Templer considers the whole play of meanings in the idea of the stair as art object as structural idea as legal prescription or as poetic fancy making it clear that the stair is simultaneously an aesthetic architectonic ergonomic and cultural element The second volume shows the dangers stairs present Drawing on twenty years of human factors research on stairs Templer sets out what is known about slips trips and falls and how best to design stairs to avoid their inherent dangers He discusses the physiological and behavioral relationship between humans and stairs and walkways the question of gait and slippery surfaces and the various types of falls and the injuries that result Perhaps most importantly Templer proposes the idea of the soft stair which could substantially reduce the annual epidemic of stair related deaths and injuries John Templer is Regents Professor of Architecture at the Georgia Institute of Technology He has published extensively on architecture including theory human factors research and designing for the elderly and disabled and is also an expert on legal cases involving bodily injury caused by falls The Staircase ,1992 , Design-Tech Jason Alread,Thomas Leslie,2007-03-14 Taking a fresh holistic approach to the topic of architectural technology this indispensable book looks at the why as well as the how of building science providing a comprehensive clear and concise introduction to the subject The demands faced by architects in their training and education are constantly changing Written by two practicing architects who teach building technology and design this text ensures that the reader is given the full picture of the discipline as it integrates technical material with design sensibilities Incorporating structural design environmental principles material science and human factors this book shows how these topics rely upon and influence one another in architectural design It also relates the technical with the theoretical illustrating how technology and design have influenced one another historically Offering highly practical guidance to the essentials of building design this book is the first to provide the full spectrum of building science for architects in one volume Design Tech includes hundreds of illustrations and numerous case studies that show how these theories work in practice **Locomotion and Posture in Older Adults** Fabio Augusto Barbieri,Rodrigo Vitória,2017-02-07 This book is an attempt to advance the discussion and improve our understanding about the effects of aging and movement disorders on motor control during

walking and postural tasks Despite these activities are performed daily there is a high requirement of motor and neural systems in order to perform both tasks efficiently Both walking and posture require a complex interaction of musculoskeletal and neural systems However the mechanisms used to control these tasks as well as how they are planned and coordinated are still a question of discussion among health professionals and researchers In addition this discussion is more interesting when the effects of aging are included in the context of locomotion and the postural control The number of older individuals is 841 million in 2015 which is four times higher than the 202 million that lived in 1950 Aging causes many motor sensorial and neural deficits which impair locomotion and postural control in the elderly The severity of this framework is worsened when the aging goes along with a movement disorder such as Parkinson disease Chorea Dystonia Huntington disease etc Therefore the aim of this book is to highlight the influence of different aspects on planning controlling and performing locomotion and posture tasks In attempting to improve current knowledge in this field invited authors present and discuss how environmental sensorial motor cognitive and individual aspects influence the planning and performance of locomotor and postural activities The major thrust of the book is to address the mechanisms involved in controlling and planning motor action in neurological healthy individuals as well as in those who suffer from movement disorders or face the effects of aging indicating the aspects that impair locomotion and postural control In addition new technologies tools and interventions designed to manage the effects of aging and movement disorders are presented in the book

Pedestrian and Evacuation Dynamics 2012 Ulrich Weidmann,Uwe Kirsch,Michael Schreckenberg,2014-04-23 The 6th International Conference on Pedestrian and Evacuation Dynamics PED2012 showcased research on human locomotion This book presents the proceedings of PED2012 Humans have walked for eons our drive to settle the globe began with a walk out of Africa However much remains to discover As the world moves toward sustainability while racing to assess and accommodate climate change research must provide insight on the physical requirements of walking the dynamics of pedestrians on the move and more We must understand predict and simulate pedestrian behaviour to avoid dangerous situations to plan for emergencies and not least to make walking more attractive and enjoyable PED2012 offered 70 presentations and keynote talks as well as 70 poster presentations covering new and improved mathematical models describing new insights on pedestrian behaviour in normal and emergency cases and presenting research based on sensors and advanced observation methods These papers offer a starting point for innovative new research building a strong foundation for the next conference and for future research

Design-Tech Thomas Leslie,Rob Whitehead,2014-03-21 Design Tech is an indispensable holistic approach to architectural technology that shows you in hundreds of drawings and tables the why as well as the how of building science providing you with a comprehensive overview In this expanded edition measurements and examples are listed in both metric and imperial units to reflect the global reality of architectural practice The authors also address digital fabrication construction documentation ultra high rise structures and zoning codes And there s more in depth coverage of structural

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Study of Movement Speeds Down Stairs Bryan L. Hoskins, James A. Milke, 2012-07-25 The Study of Movement Speeds Down Stairs closely examines forty three unique case studies on movement patterns down stairwells These studies include observations made during evacuation drills others made during normal usage interviews with people after fire evacuations recommendations made from compiled studies and detailed results from laboratory studies The methodology used in each study for calculating density and movement speed when known are also presented and this book identifies an additional seventeen variables linked to altering movement speeds The Study of Movement Speeds Down Stairs is intended for researchers as a reference guide for evaluating pedestrian evacuation dynamics down stairwells Practitioners working in a related field may also find this book invaluable

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

Pedestrian and Evacuation Dynamics Richard D. Peacock, Kuligowski Erica D., Jason D. Averill, 2011-06-29 An aging population increasing obesity and more people with mobility impairments are bringing new challenges to the management of routine and emergency people movement in many countries These population challenges coupled with the innovative designs being suggested for both the built environment and other commonly used structures e g transportation systems and the increasingly complex incident scenarios of fire terrorism and large scale community disasters provide even greater challenges to population management and safety Pedestrian and Evacuation Dynamics an edited volume is based on the Pedestrian and Evacuation Dynamics PED 5th International 2010 conference March 8th 10th 2010 located at the National Institute of Standards and Technology Gaithersburg MD USA This volume addresses both pedestrian and evacuation dynamics and associated human behavior to provide answers for policy makers designers and emergency management to help solve real world problems in this rapidly developing field Data collection analysis and model development of people movement and behavior during nonemergency and emergency situations will be covered as well

Contemporary Ergonomics 2001 Margaret Hanson, 2003-09-02 The broad and developing scope of ergonomics the application of scientific knowledge to improve people s interaction with

products systems and environments has been illustrated over the past fifteen years by the books which make up the Contemporary Ergonomics series Presenting the proceedings of the Ergonomics Society's Annual Conference the series embraces the wide range of topics covered by ergonomics Chapters provide an insight into the current practice present new research findings and form an invaluable reference source Contemporary Ergonomics will appeal to all those who have an interest in 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

Accidents in History, 2020-01-29 There is now an extensive literature on the social and environmental consequences of living in the risk society Studies of trauma are also increasingly prominent But scant attention has been paid to perceptions of risk and danger in the past in particular to the history of accidents and the meanings of the accidental This collection of interdisciplinary essays addresses this lacuna providing a theoretically informed historical sociology of the accident and risk It explores the social and cultural contexts in which acts of God calamities catastrophes disasters injuries casualties and other category of mishaps were experienced conceptualized and responded to Drawing on the skills of British European and North American scholars Accidents in History combines philosophical sociological and ecological overviews with in depth historical case studies It spans the period from the eighteenth century to the present probing the epistemological social and political roots of the accidental The authors differentiate between industrial and other forms of injury trace the origins of the normalization of accidents and analyze the interactions and gendered discrepancies between domestic and non domestic mishaps They also investigate the medicalization of sudden injury and discuss the emergence of new socio medical and humanitarian discourses around the organization of relief for victims Designing Inclusive Futures P. Langdon, P. John

Clarkson, P. Robinson, 2008-03-07 Designing Inclusive Futures reflects the need to explore in a coherent way the issues and practicalities that lie behind design that is intended to extend our active future lives This encompasses design for inclusion in daily life at home but also extends to the workplace and for products within these contexts For example given trends in employment sector growth skills requirements labour supply and demographic change there is a need to predict the critical areas where individual capabilities are mismatched with the physical social and organisational demands of work This mismatch which can be addressed within the domain of inclusive design is pervasively linked to real artefacts in workspaces and their intersection with the health factors that relate to ageing This book is the result of the fourth CWUAAT workshop held in Cambridge England in April 2008 *Pedestrian and Evacuation Dynamics 2005* Nathalie Waldau, Peter

Gattermann, Hermann Knoflachner, Michael Schreckenberger, 2007-05-26 Due to an increasing number of reported catastrophes all over the world the safety especially of pedestrians today is a dramatically growing field of interest both for practitioners as well as scientists from various disciplines The questions arising mainly address the dynamics of evacuating people and possible optimisations of the process by changing the architecture and or the procedure This concerns not only the case of

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International Encyclopedia of Ergonomics and Human Factors, Second Edition - 3 Volume Set 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 Division American Society of Engineering Education USA and the Outstanding Academic Title 2002 from Choice Magazine Not content to rest on his laurels human factors and ergonomics expert Professor Waldemar Karwowski has overhauled his standard setting resource incorporating coverage of tried and true methods fundamental principles and major paradigm shifts in philosophy thought and design Demonstrating the truly interdisciplinary nature of this field these changes make the second edition even more comprehensive more informative more in a word encyclopedic Keeping the format popularized by the first edition the new edition has been completely revised and updated Divided into 13 sections and organized alphabetically within each section the entries provide a clear and simple outline of the topics as well as precise and practical information The book reviews applications tools and innovative concepts related to ergonomic research Technical terms are defined where possible within entries as well as in a glossary Students and professionals will find this format invaluable whether they have ergonomics engineering computing or psychology backgrounds Experts and researchers will also find it an excellent source of information on areas beyond the range of their direct interests **The Art of Landscape Detail** Niall Kirkwood, 1999-09-13 Introducing a revolutionary new approach to detail design in landscape architecture In this groundbreaking book Niall Kirkwood of the Harvard Graduate School of Design takes a fresh holistic approach to the theories approaches and practices of landscape detail With the support of a wealth of graphic and written material taken from historic and contemporary landscape designwork he clearly demonstrates the role that landscape detail plays in the design process Going beyond theoretical considerations Professor Kirkwood outlines landscape detail as a primary design activity both pragmatic and poetic using a range of built landscape design examples A valuable resource for professionals and students in landscape architecture urban design and environmental design The Art of Landscape Detail Provides a practical introduction to the aesthetic concerns form language and expression of landscape detail Explores a wide range of detail issues including materials climate durability implementation and failure and their influence on the overall detail design process Examines detail design processes and research approaches that designers can

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Questioning Architectural Judgment Steven A. Moore, Barbara B. Wilson, 2013-07-24 The book shines light on the problem of judgment particularly in the realm of architectural technics and the codes that regulate it The struggle to define sustainability and thus judge architecture through such lenses is but one dimension of the contemporary problem of judgment By providing the reader with an inherently interdisciplinary study of a particular discipline architecture it brings to the topic lenses that challenge the too frequently unexamined assumptions of the discipline By situating architecture within a broader cultural field and using case studies to dissect the issues discussed the book emphasizes that it is not simply a matter of designing better more efficient or more stringent codes to guide place making but a matter of reconstructing the boundaries of the systems to be coded The authors are winners of the EDRA Place Research Award 2014 for their work on the Green Alley Demonstration Project used in the book

Contemporary Ergonomics 2002 Paul T. McCabe, 2002-03-28 The broad and developing scope of ergonomics the application of scientific knowledge to improve people s interaction with products systems and environments has been illustrated over the past sixteen years by the books that make up the Contemporary Ergonomics series Presenting the proceedings of the Ergonomics Society s Annual Conference the se

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