

# HARD FACTS ABOUT SOFT MACHINES



*The  
Ergonomics  
of Seating*

Edited by  
Rani Lueder  
and Kageyu Noro



CRC Press  
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# Hard Facts About Soft Machines

**Nico J. Delleman, Christine M.  
Haslegrave, Don B. Chaffin**



## **Hard Facts About Soft Machines:**

**Hard Facts About Soft Machines** Rani Lueder, Kageyu Noro, 2020-12-17 Although work furniture has had so much more attention recently there is a long way to go before this is translated into action in the wider world Increased international concern for the health and safety of people at work is one of the driving forces behind this book The Science of Seating brings together researchers in ergonomics and posture with industrial designers to review and assess the current state of chair design with implications for cultural behavioural and occupational aspects of health The contributions are a significant step in the science of seating and should lead to a better understanding of the mechanics dynamics and the effects of seating on the sitter They point to ways in which seats might become easier to use and adjust offering both comfort and postural support without compromising freedom of movement and in the not too distant future the intelligent chair will remember the sitter's preferences for position cushioning and so on Topics covered include Adjustability Anthropometrics Posture Back Pain Biomechanics Seat Pressure Distributions School children Special Needs of Users Design Applications Industry Perspectives VDT Standards It is aimed at researchers and practising seating designers ergonomists design engineers occupational health workers and physiotherapists and furniture manufacturers **Comfort and Design** Peter Vink, 2004-11-29 With so much attention placed upon comfort in the sale of many goods and in relation to musculoskeletal injuries it is surprising that there is no generally accepted notion of comfort or discomfort that allow them to be easily incorporated into the design process Because of this lack of a comfort discomfort paradigm industry also lacks a referen

*Working Postures and Movements* Nico J. Delleman, Christine M. Haslegrave, Don B. Chaffin, 2004-06-29 In most industries musculoskeletal injuries are the most common work related reason for employee absences These injuries are often caused by static postures or repetitive movements that have to be maintained for many hours a day such as intensive use of data entry devices assembly work parts inspection equipment maintenance manual materials handling machinery operations and vehicle operation among others In order to prevent such injuries occupational health professionals ergonomists production engineers and product designers need to know how to evaluate postures and movements and understand how these are determined by the work environment as well as what design tools are available to achieve less stressful working postures and movements *Working Postures and Movements* describes many internationally accepted evaluation tools applicable to postures and movements in the work environment Renowned researchers from around the world have brought together the latest scientific knowledge describing the anthropometry biomechanics physiology psychophysics and human perceptual motor control basis for posture and movement assessment related to all the major body segments The book addresses seating concepts hand tool and pedal designs foot floor interfaces digital human models for computer aided design and engineering and work organization task duration breaks handling frequency as they affect human performance and musculoskeletal injury reduction Professionals responsible for identifying and improving conditions in the industries where

such workplace injuries occur will find this volume to be a handy sourcebook while teachers and students will find it to be a valuable reference *Ergonomics in Action* Celine McKeown, 2016-09-17 This is a reprint of 978 0 901357 47 2 *Ergonomics in action* a practical guide for the workplace is a no nonsense introduction to the principles of workplace ergonomics The book is very user friendly and written in a clear jargon free style and gives straightforward explanations and practical examples Useful summaries at the end of each chapter highlight key points at a glance The book focuses on ergonomics in the design process job design and work organisation It covers specific areas of ergonomic importance including hand tools computer use and manual handling and also addresses the complex and sometimes controversial topic of upper limb disorders *Ergonomics in action* also includes a chapter on the basics of anthropometry and offers several practical case studies to illustrate the human and commercial benefits of following good ergonomic principles As a consultant ergonomist Celine McKeown has extensive experience of applying the principles of ergonomics to a wide variety of sectors She also trains advises and writes on a broad range of ergonomics and health and safety issues *'Extra-Ordinary' Ergonomics* Karl H.E. Kroemer, 2005-08-12 Small and big persons disabled and elderly expectant mothers and children Everyone will fall into one of these categories at least once in their lifetime In fact demographics show that at least two of every five people vary from the norm in height width and weight at any given time Yet customarily designers design for adults of regular size

**IUTAM Symposium on Optimization of Mechanical Systems** D. Bestle, Werner Schiehlen, 2012-12-06 The International Union of Theoretical and Applied Mechanics IUTAM initiated and sponsored an International Symposium on Optimization of Mechanical Systems held in 1995 in Stuttgart Germany The Symposium was intended to bring together scientists working in different fields of optimization to exchange ideas and to discuss new trends with special emphasis on multi body systems A Scientific Committee was appointed by the Bureau of IUTAM with the following members S Arimoto Japan EL Chernousko Russia M Geradin Belgium E J Haug U S A C A M Soares Portugal N Olhoff Denmark W O Schiehlen Germany Chairman K Schittkowski Germany R S Sharp U K W Stadler U S A H B Zhao China This committee selected the participants to be invited and the papers to be presented at the Symposium As a result of this procedure 90 active scientific participants from 20 countries followed the invitation and 49 papers were presented in lecture and poster sessions

*Advances in Ergonomics In Design, Usability & Special Populations: Part I* Marcelo Soares, Francisco Rebelo, 2022-07-19 Successful interaction with products tools and technologies depends on usable designs and accommodating the needs of potential users without requiring costly training In this context this book is concerned with emerging ergonomics in design concepts theories and applications of human factors knowledge focusing on the discovery design and understanding of human interaction and usability issues with products and systems for their improvement This book will be of special value to a large variety of professionals researchers and students in the broad field of human modeling and performance who are interested in feedback of devices interfaces visual and haptic user centered design and design for special populations

particularly the elderly We hope this book is informative but even more that it is thought provoking We hope it inspires leading the reader to contemplate other questions applications and potential solutions in creating good designs for all

**Ergonomics for Children** Rani Lueder, Valerie J. Berg Rice, 2007-07-25 Providing guidance on a broad range of issues for young children and adolescents Ergonomics for Children Designing Products and Places for Toddlers to Teens give you a deep understanding of how children develop and how these developmental changes can influence the design of products and places for children Copiously illustrated with photos and o

**Bodyspace** Stephen Pheasant, Christine M. Haslegrave, 2018-12-19 In the 20 years since the publication of the first edition of Bodyspace the knowledge base upon which ergonomics rests has increased significantly The need for an authoritative contemporary and above all usable reference is therefore great This third edition maintains the same content and structure as previous editions but updates the material and references to reflect recent developments in the field The book has been substantially revised to include new research and anthropometric surveys the latest techniques and changes in legislation that have taken place in recent years New coverage in the third edition Guidance on design strategies and practical advice on conducting trials Overview of recent advances in simulation and digital human modes Dynamic seating Recent work on hand handle interface Computer input devices Laptop computer use and children s use of computers Design for an aging population and accessibility for people with disabilities New approaches to risk management and new assessment tools legislation and standards As the previous two editions have shown Bodyspace is an example of the unusual a text that is a favorite among academics and practitioners Losing none of the features that made previous editions so popular the author skillfully integrates new knowledge into the existing text without sacrificing the easily accessible style that makes this book unique More than just a reference text this authoritative book clearly delineates the field of ergonomics

**Sitting at Work** Nigel Corlett, Rani Lueder, 2014 In this book we do not just deal with the chair but attempt to cover the full working environment We also deal with the problems of introducing changes which are not conventional and reflect on the decades it sometimes takes to make these changes no matter how simple they may be Seat designs and aspects of the workplace more suitable for those who have to sit during their working day are described and illustrated

Biomechanics of the Upper Limbs Andris Freivalds, 2011-02-16 There is already a wealth of literature covering cumulative trauma disorders and medical management as well as the biomechanics of manual material handling and lower back problems However despite a spike in the number of work related musculoskeletal disorders WRMSDs in the upper limbs due to a sharp increase in the amount of computer related j

**Occupational Ergonomics** Waldemar Karwowski, William S. Marras, 2003-03-26 Occupational Ergonomics Design and Management of Work Systems comprises chapters carefully selected from CRC s bestselling Occupational Ergonomics Handbook logically organized for optimum convenience and thoughtfully priced to fit every budget This book presents 34 chapters addressing selected issues in the area of occupational macroergonomics

**Contemporary Ergonomics 1998** Margaret Hanson, 2003-08-29 This

series provides a fast track for publication of suitable papers from international contributors. The papers are chosen on the basis of abstracts submitted to a selection panel in the autumn prior to the conference. In addition to mainstream ergonomists and human factors specialists, contemporary ergonomics will appeal to all those who have an interest in people's interaction with their working and leisure environment including designers, manufacturing and production engineers, health and safety specialists, organisational, applied and engineering psychologists.

**International Encyclopedia of Ergonomics and Human Factors - 3 Volume Set** Informa Healthcare, 2000-12-14. The first encyclopedia in the field, the International Encyclopedia of Ergonomics and Human Factors provides a comprehensive and authoritative compendium of current knowledge on ergonomics and human factors. It gives specific information on concepts and tools unique to ergonomics. About 500 entries published in three volumes and on CD ROM are pre-  
*Contemporary Ergonomics 2007* Philip D. Bust, 2018-02-06. Presenting the Proceedings of the Ergonomics Society's annual conference, the series embraces the wide range of topics covered by ergonomics. Individual papers provide insight into current practice, present new research findings and form an invaluable reference source. A wide range of topics are covered in these proceedings including Ergonomics, Human Factors and User Centred Design. It also features related disciplines such as Psychology, Engineering and Physiology. Particular emphasis is given to the utility of these disciplines in improving health, safety, efficiency and productivity. The 2007 Annual Conference features Human factors at the heart of systems engineering. As well as being of interest to mainstream ergonomists and human factors specialists, Contemporary Ergonomics will appeal to all those who are concerned with the interaction of people with their working and leisure environment including designers, manufacturing and production engineers, health and safety specialists, occupational, applied and industrial psychologists and applied physiologists.

*Contemporary Ergonomics 2002* Paul T. McCabe, 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 sixteen 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 covered by ergonomics. Chapters provide an insight into the current practice, present new research findings and form an invaluable reference source. Among the most interesting topics covered in this volume are rail safety, the development and applications of virtual reality and hospital ergonomics. Contemporary Ergonomics 2002 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.  
*The Occupational Ergonomics Handbook* Waldemar Karwowski, William S. Marras, 1998-12-18. Occupational ergonomics and safety studies the application of human behavior, abilities, limitations and other characteristics to the design, testing and evaluation of tools, machines, systems, tasks, jobs and environments for productive, safe, comfortable and effective use.

Occupational Ergonomics Handbook provides current comprehensive knowledge in this broad field providing essential state of the art information from nearly 150 international leaders of this discipline The text assesses the knowledge and expertise applied to industrial environments Providing engineering guidelines for redesigning tools machines and work layouts Evaluating the demands placed on workers by current jobs Simulating alternative work methods Determining the potential for reducing physical job demands based on the implementation of new methods Topics also include Fundamental ergonomic design principles at work Work related musculoskeletal injuries such as cumulative trauma to the upper extremity CTDs and low back disorders LBDs which affect several million workers each year with total costs exceeding 100 billion annually Current knowledge used for minimizing human suffering potential for occupational disability and related worker s compensation costs Working conditions under which musculoskeletal injuries might occur Engineering design measures for eliminating or reducing known job risk factors Optimal manufacturing processes regarding human perceptual and cognitive abilities as well as task reliability Identifying the worker population affected by adverse conditions Early medical and work intervention efforts Economics of an ergonomics maintenance program Ergonomics as an essential cost to doing business Ergonomics intervention includes design for manufacturability total quality management and work organization Occupational Ergonomics Handbook demonstrates how ergonomics serves as a vital component for the activities of the company and enables an advantageous cooperation between management and labor This new handbook serves a broad segment of industrial practitioners including industrial and manufacturing engineers managers plant supervisors and ergonomics professionals researchers and students from academia business and government human factors and safety specialists physical therapists cognitive and work psychologists sociologists and human computer communications specialists Aging, Disability and Independence William C. Mann, 2008-11-15 This book includes 15 full length papers submitted for the Fourth International Conference on Aging Disability and Independence ICADI These papers reflect five ICADI tracks Livable Homes and Communities Smart Homes and Robotics Transportation Work Assistive Technology and one ICADI theme Consumer Perspective The major focus of this publication is on aging and disability related services research development and policy bringing together a rich mix of motivated and talented individuals multi disciplinary and engaged in different sectors and types of organizations who ultimately impact these services Further the aim is to provide the opportunity to learn more about the successes challenges and different approaches to the independence related needs of elders in different countries This book is of interest to research and development personnel practitioners service providers policymakers business representatives consumers professional and graduate students **Fitting The Task To The Human, Fifth Edition** E. Grandjean, Karl H.E. Kroemer, 1997-07-31 Our working conditions have undergone rapid and fundamental changes during the last few years One example is the widespread use of the individual computer in the shop office and home Another major development is that women now hold many jobs that used to be in the male domain and that many more women choose a life

long occupational career Workforces tasks conditions and tools are changing Many office and industrial workers are tied to human machine systems Repetitive work can create cumulative health problems such as the often reported visual strains mental stress and physical injury Proper ergonomic measures can avoid such harmful effects and instead promote health conditions which are both efficient and agreeable In this latest edition of *Fitting the Task to the Human* Professor Karl Kroemer has revised and updated the text and data while remaining true to the spirit of Professor Etienne Grandjean's earlier editions This aim is as before to impart basic knowledge of occupational ergonomics in a straightforward and lucid fashion to those responsible for the design management and safety of people in the workplace and to those who study it

*Office Ergonomics* Karl H.E. Kroemer, 2002-09-11 Office workers form a large and growing proportion of the workforce especially with the growth of the service sector Almost all of us work in computerised offices and have become strongly attached to these machines We wish to be productive and successful satisfied with our work get along with our fellow workers we do not want to suffer aches in wrists shoulders or back or any headaches This is a practical book but it is based on sound theory and research It is written for the practitioner the office manager the equipment purchaser the designer and architect and especially for the individual office worker for you and me who operate keyboards check and make files phone and fax sit and stand write and read who discuss and evaluate and prepare for decisions We need to know how to set up the office how to select and arrange our equipment and furniture how to organise and pace our work We need to perform at ease and efficiently which is the motto of ergonomics



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