

Anthropometry, Apparel Sizing and Design

Second Edition



Edited by
Norsaadah Zakaria and Deepti Gupta



THE TEXTILE INSTITUTE BOOK SERIES

Anthropometry Apparel Sizing And Design

Susan M. Watkins



Anthropometry Apparel Sizing And Design:

Anthropometry, Apparel Sizing and Design Norsaadah Zakaria, Deepti Gupta, 2019-10-05 Anthropometry Apparel Sizing and Design Second Edition reviews techniques in anthropometry sizing system developments and their applications to clothing design The book addresses the need for the improved characterization of population size weights and the shapes of consumers This new edition presents the very latest advances and is expanded to include in depth coverage of sizing and fit for specific groups and applications Sections cover the development of sizing systems classification and body types the use of anthropometric data body measurement devices and techniques including 3D scanners for the full body and for particular body parts 4D scanning technology and motion analysis Additional sections cover testing and the evaluation of fit and anthropometric sizing systems for particular functions thus reflecting the increasing need for apparel to meet specific needs such as in swimwear protective clothing mobility intimate apparel footwear and compression garments This book will be an essential reference source for apparel designers manufacturers retailers and merchandisers Its detailed information and data will also be of great interest to researchers and postgraduate students across clothing technology product design fashion and textiles Reviews methods and techniques in anthropometry sizing system development and applications in clothing design Enables users to understand and utilize detailed anthropometric data Covers sizing and fit for particular uses including protective clothing compression garments intimate apparel and footwear

Anthropometry, Apparel Sizing and Design Deepti Gupta, Norsaadah Zakaria, 2017-11-13 One of the greatest challenges for the apparel industry is to produce garments that fit customers properly Anthropometry Apparel Sizing and Design addresses the need for improved characterization of our populations in order to tailor garments according to size weight and shape of consumers This book reviews techniques in anthropometry sizing system developments and their applications to clothing design Part one considers a range of anthropometric methods The text discusses the range of sizing systems including data mining techniques useful for bridging the gap between ergonomists and designers Chapters examine three dimensional anthropometric methods and multivariate and bivariate analysis for identifying key body dimensions Part two then explains how to analyze anthropometric data to develop appropriate sizing systems Here the book discusses classification and clustering of human body shapes the importance of national surveys and using the data obtained to ensure inclusive design strategies The book covers sizing systems developed for particular groups apparel size designation and the potential for international standardization It considers the advantages of 3D body scanning and computer aided design and the use of body motion analysis to address ease allowance requirements of apparel With its distinguished editors and international contributors this work is an essential reference particularly due to the specific combination of aspects of anthropometry and the sizing of clothing for researchers garment designers students and manufacturers in the clothing and fashion industry Reviews techniques in anthropometry sizing system developments and their applications to clothing design Examines 3D anthropometric methods and multivariate

and bivariate analysis for identifying key body dimensions Covers sizing systems developed for particular groups apparel size designation and the potential for international standardization *Clothing for Children and Teenagers* Norsaadah Zakaria,2016-06-07 Clothing for Children and Teenagers Anthropometry Sizing and Fit addresses the complexities of developing size specifications for clothing aimed at seven to seventeen year olds Children and teenagers experience rapid physical growth and alterations in body shape as they develop changes that pose significant challenges in creating apparel sizing systems The book begins by introducing the principles of apparel fit and sizing systems Drawing on the author's own fieldwork it goes on to discuss methods of conducting anthropometric surveys in children and teenagers and techniques for analyzing the resulting data in order to produce successful sizing systems Introduces the principles of apparel fit and sizing systems and discusses methods of conducting anthropometric surveys in children and teenagers Offers systematic and comprehensive coverage of the complexities associated with clothing for children and teenagers Reviews techniques in analysis and classification of children and teenagers body shapes and sizes Covers the development designation and validation of an apparel sizing system for children and teenagers *Sizing in Clothing* S Ashdown,2007-04-11 The basic concepts behind sizing systems currently used in the manufacture of ready to wear garments were originally developed in the 19th century These systems are frequently based on outdated anthropometric data they lack standard labelling and they generally do not accommodate the wide variations of body sizes and proportions that exist in the population However major technological improvements have made new population data available worldwide with the potential to affect the future of sizing in many ways New developments in computer aided design and sophisticated mathematical and statistical methods of categorizing different body shapes can also contribute to the development of more effective sizing systems This important book provides a critical appreciation of the key technological and scientific developments in sizing and their application The first chapter in the book discusses the history of sizing systems and how this has affected the mass production of ready to wear clothing Chapters two and three review methods for constructing new and adapting existing sizing systems and the standardisation of national and international sizing systems Marketing and fit models are reviewed in chapter four whilst chapter five presents an analysis of the grading process used to create size sets Chapters six and seven discuss fit and sizing strategies in relation to function and the communication of sizing Mass customization and a discussion of material properties and their affect on sizing are addressed in chapters eight and nine Military sizing and the aesthetics of sizing are detailed in chapters ten and eleven The final chapter reviews the impact on sizing of production systems and specifications Written by an international team of contributors this book is an essential reference to researchers designers students and manufacturers in the clothing and fashion industry Provides a critical appreciation of key technological and scientific developments in sizing and their application Discusses how developments in sizing affect the mass production of ready to wear clothing Reviews methods of constructing new and adapting existing sizing systems *Creating Efficient Apparel Sizing Systems* Beatrix

Paal,1997 *Digital Manufacturing Technology for Sustainable Anthropometric Apparel* Norsaadah Zakaria,2022-05-13
 Digital Manufacturing Technology for Sustainable Anthropometric Apparel is a thorough and practical examination of the state of the art in anthropometric apparel manufacturing technology The scale of the textiles industry in economic as well as environmental terms is so significant that new technologies and techniques that deliver improvements are of great global interest Consumer preferences and government regulations are causing apparel manufacturers to prioritize sustainable practices and at a time of unprecedented technological evolution and competitive pressure integrating these measures with other priorities is a key challenge By combining the expertise of contributors from the worlds of technology change management and technical textiles engineering this book provides a unique interdisciplinary resource for organizational as well as technical implementation Newly developed Industry 4 0 technologies are addressed along with the latest data collection and analysis methods Provides practical technical instructions for the implementation of new technologies for 3D body scanning and anthropometric design and sizing Explains the latest technical methods for the collection of anthropometric data and examines related ethical issues Shows how to integrate anthropometric design methodologies into a full smart manufacturing system **Textile Technology Digest** ,2001 **Anthropometric Source Book. Volume 3: Annotated Bibliography of Anthropometry** ,1978 **American Journal of Physical Anthropology** ,1918 Bibliography in physical anthropology 1942 43 in Dec issue Anthropometric Source Book ,1978 **Annual Report of the Biometrics Unit, Department of Plant Breeding and Biometry** Cornell University. Biometrics Unit,1997
Anthropometry and Biomechanics of Selected Populations Snyder, Richard G., Clothing Susan M. Watkins,1995
 Susan M Watkin s new revision of *Clothing The Portable Environment* enlivened by 385 illustrations updates and enlarges her previous study Watkins writes for the student and teacher of clothing design the design professional and the interested layperson Her text presents the basic processes theories and ingredients of clothing creation The problem oriented practicing designer and student are offered guidance in database use and selected keywords for each subject keys to electronic information sources The author examines functional clothing design for athletes astronauts soldier and others She also considers garments used by those with special needs the asbestos worker the elderly the person with disabilities and offers tests for assessment of mobility sizing and fit Other chapters cover materials designs and systems for thermal protection impact theory and protection clothing for hazardous environments mobility in clothing fastening systems including heat sealing special needs clothing and the process of design Lists of references and a bibliography for further reading are included *Productivity* ,2006 *Engineering Anthropometry Methods* J. A. Roebuck,K. H. E. Kroemer,W. G. Thomson,1975-06-03 Impact of Choosing Two-dimensional Versus Steroscopic Self Images in a Computer Driven Mode of Presentation for the Apparel Industry Carol Denise Christian Joiner,1999 *The Research Quarterly of the American Association for Health, Physical Education, and Recreation* ,1948 **Research Quarterly** ,1948 Sizing in Clothing S.P.

Ashdown,2007-04-20 Written by an international team of contributors this book takes a critical look at key technological and scientific developments in sizing and their application The book begins with the history of sizing systems and their affect on the mass production of ready to wear clothing It reviews methods for constructing new and adapting existing sizing systems and the standardization of national and international sizing systems The following chapters cover marketing and fit models and present an analysis of the grading process used to create size sets This book is an essential reference to researchers designers students and manufacturers in the clothing and fashion industry **Report of the College** New York State College of Human Ecology,1996

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