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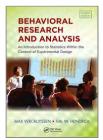
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4TH EDITION

Behavioral Research and Analysis

An Introduction to Statistics within the Context of Experimental Design, Fourth Edition



Max Vercruyssen, Hal W. Hendrick

This text provides an overview of basic statistical methods used in behavioral research, experimental design, and report writing. It uniquely integrates statistics within the context of experimental design and simplifies the process of planning, conducting, analyzing, and preparing an experimental or research study report. Completely updated, this fourth estation response Completely updated, this fourth edition presents new statistical procedures and new examples in sport science, public health, gerontology, and biomedicine. It also reflects the changes of the APA guidebook and includes SAS statistical software in the end-of-chapter exercises.

CRC Press February 2018:299 Hb: 978-1-439-81802-2: £150 Pb: 978-1-138-07318-0: £52.99

eBook: 978-0-429-11286-7 * For **full contents** and more information, visit: **www.routledge.com/9781138073180**

2ND EDITION

Biomechanics in Ergonomics



Edited by Shrawan Kumar

Two of the most important goals of ergonomics are the comfort, and the health and safety of the working population. Written by leaders in the field, this second edition of Biomechanics in Ergonomics presents thoroughly updated and new material regarding the biomechanics of tissues and organs in the workplace. This text establishes a foundation for the understanding of gross biomechanical loads on the human system at the tissue level. It describes biomechanical risk factors and supplies exposure assessment tools and techniques. Comprehensive in scope, the book is suitable for use by ergonomic engineers and physical therapists, and as a textbook for ergonomics

CRC Press
December 2007:742
Hb: 978-0-849-37908-6: £150
e8book: 978-0-429-12513-3
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Ergonomics

Foundational Principles, Applications, and Technologies



Pamela McCauley

Series: Ergonomics Design & Mgmt. Theory & Applications

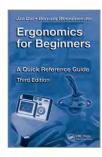
A comprehensive introduction to the field of ergonomics, this text includes scientific principles, research, applications, and emerging trends in technology. It contains all the necessary elements for delivery of a quality ergonomics course including a sample course syllabus, PowerPoint slides for instructors and students, homework assignments, class projects, instructor's manual, suggested lab equipment, proposed lab exercises, and a student laboratory manual. This valuable resource provides allows readers to understand and improve the environments, equipment, and systems with which humans interact in the workplace, recreational environment, and home.

CRC Press
December 2011:356
Hb: 978-1-439-80445-2: £86.99
eBook: 978-0-429-11264-5
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3RD EDITION

Ergonomics for Beginners

A Quick Reference Guide, Third Edition



Jan Dul, Bernard Weerdmeester

This third editionretains all the features that made each previous edition a bestseller in its own right. The authors have meticulously revised the information to address rapid developments in information and communications technology. They offer ergonomics advice on topics such as wireless, remote, and hands-free controls, website design, mobile interaction, and virtual offices. They also provide a list of 171 published ISO standards. In their trademark, eloquent style, the authors explain the application of a humancentered approach to the design, testing, and evaluation of work systems by considering the interrelated set of physical, cognitive, social, organizational, and other relevant human factors.

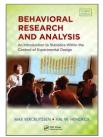
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Behavioral Cybersecurity

Applications of Personality Psychology and Computer Science



Wayne Patterson, Cynthia E. Winston-Proctor

This book will provide a basis for new approaches to understanding problems in one of our most important areas of research. The approach, which is agreed upon by most cybersecurity experts, is to incorporate not only traditional technical computational and analytic approaches to cybersecurity, but also developing psychological and human factors approaches, as well. This book is written to help develop cybersecurity curricula, as a support for further research in behavioral science and cybersecurity, and also to support practitioners in this field.

CRC Press May 2019:290 Hb: 978-1-138-61778-0: **£86.99** eBook: 978-0-429-46148-4



2ND EDITION

Introduction to Human Factors and Ergonomics for Engineers



Mark R. Lehto, Steven J. Landry

Series: Human Factors and Ergonomics

With a practical, applied orientation, this book presents and integrates in a single source important methods and tools used in the fields of industrial engineering, human factors and ergonomics to design and improve jobs, tasks and products. The author covers such topics as the human system, motion analysis, predicting human performance, simulation in ergonomic design, product quality and usability, macroergonomics, and occupational safety and health. Each chapter offers challenging problems and examples to illustrate concepts. The new second edition features two new chapters that address human error causation and reduction and human computer interaction. It also includes updated figures.

CRC Press
October 2012:794
Hb: 978-1-439-85394-8: £105
e8ook: 978-0-429-10305-6
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Ergonomics

Foundational Principles, Applications, and Technologies



Pamela McCauley

Series: Ergonomics Design & Mgmt. Theory & Applications

A comprehensive introduction to the field of ergonomics, this text includes scientific principles, research, applications, and emerging trends in technology. It contains all the necessary elements for delivery of a quality ergonomics course including a sample course syllabus, PowerPoint slides for instructors and students, homework assignments, class projects, instructor's manual, suggested lab equipment, proposed lab exercises, and a student laboratory manual. This valuable resource provides allows readers to understand and improve the environments, equipment, and systems with which humans interact in the workplace, recreational environment, and home.

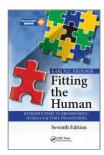
CRC Press December 2011:356 Hb: 978-1-439-80445-2: **£86.99** eBook: 978-0-429-11264-5

* For full contents and more information, visit: www.routledge.com/9781439804452

7TH EDITION

Fitting the Human

Introduction to Ergonomics / Human Factors Engineering, Seventh Edition



Karl H.E. Kroemer

This new edition undergraduate introductory textbook follows the motto of the previous versions: "Solid information, easy-to-read, easy to understand, easy to apply." The aim remains the same: "Human engineering" workplaces, tools, machinery, computers, lighting, shiftwork, work demands, the environment, officers, vehicles, the home – and everything else that we can design to fit the human. The new edition is up-to-date in content and language, in data and illustrations. Like previous versions, this book is for students and professionals in engineering, design, architecture, safety and management and to everybody else who wants to make work safe, efficient, satisfying, and even enjoyable.

CRC Press January 2017:480 Hb: 978-1-498-74689-2: £54.99 eBook: 978-1-315-39838-9

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* For full contents and more information, visit: www.routledge.com/9781498746892

4TH EDITION

Introduction to Human Factors and Ergonomics



Robert Bridger

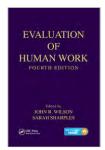
Building on the success of previous editions, the 4th edition of 'Introduction to Human Factors and Ergonomics' provides a comprehensive and up to date introduction to the field. The new edition places the subject matter into a system context using a human-machine model to structure the chapters and a knowledge application model to structure the organisation of material in each chapter. Every chapter covers: Core Concepts, Basic Applications, Tools and Processes, and System Integration issues regardless of topic. Includes over 200 exercises and essays (at least ten per chapter).

CRC Press November 2017:770 Hb: 978-1-498-79594-4: **£96.99** eBook: 978-1-351-22844-2



4TH EDITION

Evaluation of Human Work



Edited by John R. Wilson, Sarah Sharples

Written by experts with real-world experience in applying ergonomics methodology in a range of contexts, this book explores ergonomics/human factors from a "doing it" perspective. More than a cookbook of ergonomics methods, it encourages readers to think about which methods they should apply, when, and why. This book provides a guide to what ergonomics/human factors can offer to industry, business, or human service professionals, and also acts as a reference for practicing ergonomics. All chapters have been revised and several new ones have been added.

CRC Press April 2015:1036 Hb: 978-1-466-55961-5: £135 eBook: 978-0-429-09889-5

* For full contents and more information, visit: www.routledge.com/9781466559615

3RD FDITION

Human Factors in Simple and Complex Systems

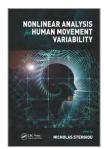


Robert W. Proctor, Trisha Van Zandt

Recently, there have been a number of advances in technology, including in mobile devices, globalization of companies, display technologies and healthcare, all of which require significant input and evaluation from human factors specialists. Accordingly, this textbook has been completely updated, with some chapters folded into other chapters and new chapters added where needed. The text continues to fill the need for a textbook that bridges the gap between the conceptual and empirical foundations of the field.

CRC Press December 2017:698 Hb: 978-1-482-22956-1: £135 eBook: 978-1-315-15681-1

Nonlinear Analysis for Human Movement Variability



Edited by Nicholas Stergiou

This textbook gives engineering and other students the foundation they need in nonlinear analysis for studying movement variability in their practices. It introduces dynamical systems and time series and presents a wide variety of nonlinear tools such as Lyapunov exponent, surrogation, entropy, fractal analysis, and several others. Each chapter provides examples from the literature and the author's lab on how the nonlinear analysis tools can be used to understand real-world applications. The book concludes with a chapter on specific case studies.

CRC Press CRC Press
January 2016:408
Hb: 978-1-498-70332-1: £96.99
eBook: 978-1-315-37065-1
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3RD EDITION

Human Factors Engineering and Ergonomics

A Systems Approach



Stephen J. Guastello

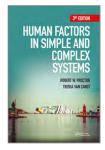
The textbook examines the relative effectiveness of accident analysis and prevention strategies, covers risk analysis and resilience, introduces nonlinear dynamics for system performance changes, and artificial intelligence and complex systems. It will be a valuable resource for senior undergraduate and graduate students in diverse fields including ergonomics, human factors, computer science, and psychology.

CRC Press April 2023:708 Hb: 978-1-032-41658-8: **£195** Pb: 978-1-032-08162-5: **£78.99** eBook: 978-1-003-35912-8

* For **full contents** and more information, visit: **www.routledge.com/9781032081625**

3RD EDITION

Human Factors in Simple and Complex Systems



Robert W. Proctor, Trisha Van Zandt

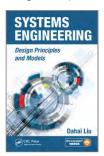
Recently, there have been a number of advances in technology, including in mobile devices, globalization of companies, display technologies and healthcare, all of which require significant input and evaluation from human factors specialists. Accordingly, this textbook has been completely updated, with some chapters folded into other chapters and new chapters added where needed. The text continues to fill the need for a textbook that bridges the gap between the conceptual and empirical foundations of the field.

CRC Press December 2017:698 eBook: 978-1-315-15681-1

* For full contents and more information, visit: www.routledge.com/9781482229561

Systems Engineering

Design Principles and Models



Dahai Liu

Organized in three parts, this textbook covers systems and systems engineering concepts, systems methods, models and analytical techniques, systems management and control methods. Traditional engineering books are either too technical or not technical at all. This book will not only give students exposure to the concepts of systems and systems engineering, but will also provide enough technical expertise for them to use and apply what they learn in their careers right away.

August 2015:482 Hb: 978-1-466-50683-1: £76.99

Fundamentals of User-Centered Design

A Practical Approach



Brian Still, Kate Crane

There has been some solid work done in the area of User-Centered Design (UCD) over the last few years. What's been missing is an in-depth, comprehensive textbook that connects UCD to usability and User Experience (UX) principles and practices. This new textbook discusses a theoretical framework in relation to other design theories. It provides a repeatable, practical process for implementation, offering numerous examples, methods, and case studies for support, and it emphasizes best practices in specific environments, including mobile and web applications, print products, as well as hardware.

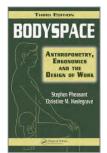
CRC Press
December 2016:348
Hb: 978-1-498-76436-0: £110
eBook: 978-1-315-20092-7
* For full contents and more information, visit: www.routledge.com/9781498764360



3RD EDITION

Bodyspace

Anthropometry, Ergonomics and the Design of Work, Third Edition



Stephen Pheasant, Christine M. Haslegrave

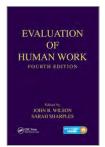
This third edition maintains the same content and structure as previous editions, but updates the material and references to account for recent developments in the field, including new research findings and anthropometric surveys. Chapters on Health and Safety and Ergonomics in the Office are substantially revised to include new research, techniques, and changes in legislation that have taken place in recent years. The book includes information on new and revised international standards and regulations; introduces new approaches to risk management and new assessment tools; and offers information on a variety of computer input devices, "hot desking," and children's use of computers.

CRC Press July 2005:352 Hb: 978-0-415-28520-9: **£71.99** eBook: 978-1-315-37521-2

* For full contents and more information, visit: www.routledge.com/9780415285209

4TH EDITION

Evaluation of Human Work



Edited by John R. Wilson, Sarah Sharples

Written by experts with real-world experience in applying ergonomics methodology in a range of contexts, this book explores ergonomics/human factors from a "doing it" perspective. More than a cookbook of ergonomics methods, it encourages readers to think about which methods they should apply, when, and why. This book provides a guide to what ergonomics/human factors can offer to industry, business, or human service professionals, and also acts as a reference for practicing ergonomics. All chapters have been revised and several new ones have been added.

CRC Press April 2015:1036 Hb: 978-1-466-55961-5: **£135** eBook: 978-0-429-09889-5

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