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Textbook Catalogue
Spring 2025



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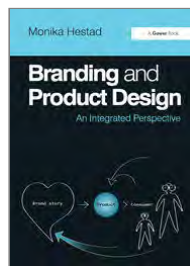
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Contents

Commercial Design	2
Context, History and Theory	3
Design Futures	6
Design Process and Materials/Manufacturing	7
Design Research Methods	8
Design Studio	9
Design Thinking and Communication	10
Digital Design	12
Materials and Processes	13
Mechanics and Engineering for Designers	14
Professional Practical	15
Project Design and Implementation	16
Prototyping and Making	17
Sustainable Design	18
User Centered Design / UX Design	21
Index	22

Branding and Product Design

An Integrated Perspective



Monika Hestad

Why do winning brands appear to be more creative and authentic than less successful ones? Despite the strong link between famous brands and the products sold under their name, there is still a gap in understanding the relationship between product design and brand-building - Monika Hestad plugs that gap. Branding and Product Design discusses key questions about the link between product and brand and about design processes and innovation. It examines these questions on both macro and micro levels and provides the reader with tools to help understand the role of products in building a brand, and how to bring the brand and the product design process together. These are based on the author's rese

Routledge

June 2024 : 182pp

Pb: 978-1-032-83721-5 : **£35.99**

Hb: 978-1-409-44626-2 : **£150**

eBook: 978-1-315-56987-1

* For full contents and more information, visit: www.routledge.com/9781032837215

Post-Petroleum Design



George Elvin

Despite the growing demand for design strategies to reduce our petroleum use, no one has yet brought together the lessons of the world's leading post-petroleum designers into a single resource. Post-Petroleum Design provides this, for the first time. Post-Petroleum Design gives design professionals the information they need to research, evaluate, and select materials, technologies and design strategies that meet the growing demand for sustainable design, plastic-free materials and process energy conservation. Designer profiles, studies, statistics and many colour illustrations all highlight the work—some of the best design work to be found anywhere, and showcased here for the first time.

Routledge

May 2015 : 276pp

Pb: 978-1-138-85390-4 : **£37.99**

Hb: 978-1-138-85389-8 : **£175**

eBook: 978-1-315-72249-8

* For full contents and more information, visit: www.routledge.com/9781138853904

Product Configurators

Tools and Strategies for the Personalization of Objects



Edited by **Fabio Schillaci**

This book provides a source of inspiration and a manual for designers, entrepreneurs and professionals who are looking into the practical application of product configurators. The book delves into the practical application of configurators using case studies of selected firms that present their most significant works. It offers the reader tips, suggestions, technical details and critical issues which need to be considered, from experienced actors and pioneers worldwide, which include: Unfold, Belgium; In-flexions, France; Nervous System, USA; Okinlab, Germany; ZeroLight, United Kingdom and much more.

Routledge

November 2017 : 264pp

Pb: 978-0-415-79013-0 : **£54.99**

Hb: 978-0-415-79012-3 : **£135**

eBook: 978-1-315-21357-6

* For full contents and more information, visit: www.routledge.com/9780415790130

Aesthetic Sustainability

Product Design and Sustainable Usage



Kristine Harper

Series: Routledge Studies in Sustainability

Aesthetic Sustainability offers guidelines for ways to reduce, rethink and reform consumption. Its focus on aesthetics adds a new dimension to the creation, as well as the consumption, of sustainable products. The chapters offer innovative ways of working with what the author calls expressional durability in the design process.

Routledge
September 2018 : 170pp
Pb: 978-1-138-36918-4 : **£43.99**
Hb: 978-1-138-72861-5 : **£135**
eBook: 978-1-315-19041-9

* For full contents and more information, visit: www.routledge.com/9781138369184

African Industrial Design Practice

Perspectives on Ubuntu Philosophy



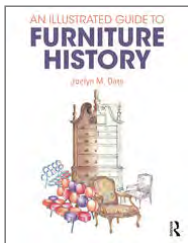
Edited by Richie Moalosi, Yaone Rapitsenyane

The underlying principle of this book is the African philosophy of Ubuntu, which acts as a guide for developing empathic products and services. It makes the case that empathy is the key to any successful product and service design project because it enables designers to make wise design choices that align with users' demands. Fifteen chapters provide the latest industrial design developments, techniques, and processes targeting emerging economies. This will be an essential textbook for undergraduates, postgraduates, instructors, and beginner designers in emerging economies to provide regionally contextualised design processes, illustrated examples, and outcomes.

Routledge
September 2023 : 326pp
Pb: 978-1-032-21831-1 : **£38.99**
Hb: 978-1-032-21836-6 : **£135**
eBook: 978-1-003-27024-9

* For full contents and more information, visit: www.routledge.com/9781032218311

An Illustrated Guide to Furniture History



Joclyn M. Oats

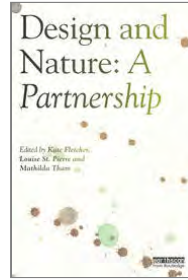
This book provides upper-level students and instructors with an alternative visual analytical approach to learning about furniture history from antiquity to post-modernism. Following an immersive teaching model, it presents a nine-step methodology to help strengthen students' visual literacy and quickly acquire subject area knowledge. Moving chronologically through key periods in furniture history and interior design, such as the Renaissance, the Arts & Crafts Movement and Modernism, it traverses from Europe to America to present a comprehensive foundational guide to the history of furniture design.

Routledge
July 2021 : 386pp
Pb: 978-0-367-40656-1 : **£32.99**
Hb: 978-0-367-40655-4 : **£135**
eBook: 978-0-367-80829-7

* For full contents and more information, visit: www.routledge.com/9780367406561

Design and Nature

A Partnership



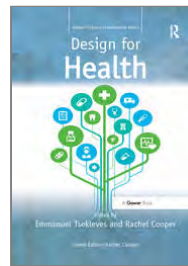
Edited by Kate Fletcher, Louise St. Pierre, Mathilda Tham

Organised as a dialogue between nature and design, this book explores design ideas, opportunities, visions and practices through relating and uncovering experience of the natural world. Presented as an edited collection of 25 wide-ranging short chapters, the book explores the possibility of new relations between design and nature, beyond human mastery and understandings of nature as resource and by calling into question the longstanding role for design as agent of capitalism. Design and Nature: A Partnership is a rich resource for designers who wish to learn to engage with sustainability from the ground up.

Routledge
September 2019 : 216pp
Pb: 978-0-815-36274-6 : **£37.99**
Hb: 978-0-815-36273-9 : **£135**
eBook: 978-1-351-11151-5

* For full contents and more information, visit: www.routledge.com/9780815362746

Design for Health



Edited by Emmanuel Tsekleves, Rachel Cooper

Design for Health illustrates the history of the development of design for health, the various design disciplines and domains to which design has contributed. Through 26 case studies presented in this book, the authors reveal a plethora of design research methodologies and research methods employed in design for healthcare. This book brings together a comprehensive knowledge base on how design and designers respond to different health challenges, as well discussing emerging trends and opportunities for designers and healthcare professionals.

Routledge
September 2020 : 438pp
Pb: 978-0-367-66970-6 : **£37.99**
Hb: 978-1-472-45742-4 : **£135**
eBook: 978-1-315-57661-9

* For full contents and more information, visit: www.routledge.com/9780367669706

Design for Life

Creating Meaning in a Distracted World



Stuart Walker Lancaster University, UK

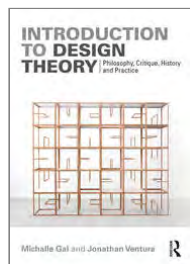
Design for Life draws on leading contemporary discussions from philosophy, psychology, the social sciences, history and religion, to describes why change is necessary – not only because of environmental breakdown and social disparities within and between nations, but also because, at the personal level, contemporary, technological ways of living are creating frenetic, distracted lives that are being linked to anxiety, depression and ennui. The inadequacies and damaging effects of this worldview are presented both through reasoned argument and through a series of designed artefacts that highlight its limitations and critique its assumptions.

Routledge
April 2017 : 296pp
Pb: 978-1-138-23247-1 : **£32.99**
Hb: 978-1-138-23246-4 : **£135**
eBook: 978-1-315-31253-8

* For full contents and more information, visit: www.routledge.com/9781138232471

Introduction to Design Theory

Philosophy, Critique, History and Practice



Michalle Gal, Jonathan Ventura

Designed both as a course book and a source for research, *Introduction to Design Theory* methodically covers the central concepts of design theory, definitions of design, its historical milestones, and its relations to culture, industry, body, and ecology, language, society, gender, and ideology. Aimed towards undergraduate and postgraduate students, as well as teachers and scholars, from across the design disciplines, it invites readers to engage with design from an interdisciplinary perspective, departing from the traditional academic compartmentalization of practice, history and philosophy.

Routledge

July 2023 : 286pp

Pb: 978-1-032-10618-2 : **£36.99**

Hb: 978-1-032-10617-5 : **£135**

eBook: 978-1-003-21623-0

* For full contents and more information, visit: www.routledge.com/9781032106182

Joinery, Joists and Gender

A History of Woodworking for the 21st Century



Deirdre Visser

This is the first publication of its kind to survey the long and rich histories of women and gender non-conforming persons who work in wood. Written for craft practitioners, design students, and readers interested in the intersections of gender and labor history—with 200 full color images both historical and contemporary—this book provides an accessible and insightful entry into the histories, practices, and lived experiences of women and non-binary makers in woodworking. Part I presents a woodworking history primarily in Europe and the United States. Part II features sixteen in-depth profiles of diverse contemporary woodworkers.

Routledge

March 2022 : 394pp

Pb: 978-0-367-36341-3 : **£32.99**

Hb: 978-0-367-36340-6 : **£135**

eBook: 978-0-429-34541-8

* For full contents and more information, visit: www.routledge.com/9780367363413

More-Than-Human Design in Practice



Edited by Anton Poikolainen Rosén, Antti Salovaara, Andrea Botero, Marie Louise Juul Søndergaard

This book provides an overview of the diverse multidisciplinary field of more-than-human design, offering a philosophical grounding of more-than-human design in posthumanism while putting practical design examples and methods to the forefront. This easily accessible and theoretically grounded book will provide design researchers and educators an excellent introduction to more-than-human thinking. It will also be of interest to students and scholars studying design more broadly, sustainability, environmental studies and service design, as well as to practicing designers interested in sustainability.

Routledge

November 2024 : 290pp

Pb: 978-1-032-74120-8 : **£36.99**

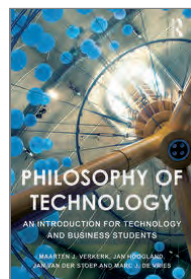
Hb: 978-1-032-74119-2 : **£135**

eBook: 978-1-003-46773-1

* For full contents and more information, visit: www.routledge.com/9781032741208

Philosophy of Technology

An Introduction for Technology and Business Students



Maarten Verkerk Eindhoven University of Technology, the Netherlands, **Jan Hoogland** Twente University, the Netherlands, **Jan van der Stoep** Ede Christian University of Applied Sciences, the Netherlands, **Marc de Vries** Delft University of Technology, the Netherlands

This is an accessible guide to the philosophy, designed for those with no philosophical background in mind. The text presents a critical analysis of the subject including development, manufacturing, sales and marketing and the use of technological products and services. The abstract ideas are made easier to grasp with a story-telling approach as well as the use of four case studies drawing from various engineering disciplines to demonstrate how philosophy can and should influence technology in practice. This is an ideal textbook for students of technology and engineering beginning a course or project in the philosophy of their subject.

Routledge

July 2015 : 354pp

Pb: 978-1-138-90439-2 : **£49.99**

Hb: 978-1-138-90438-5 : **£135**

eBook: 978-1-315-69636-2

* For full contents and more information, visit: www.routledge.com/9781138904392

2ND EDITION

Routledge Handbook of Sustainable Design



Edited by Rachel Beth Egenhoefer University of San Francisco, USA

Series: Routledge Environment and Sustainability Handbooks

This handbook considers the design, not only of artifacts, but of structures, systems, and interactions in the context of sustaining our shared planet. This revised edition introduces new and updated chapters, as well as a new section on pedagogy for sustainable design. With authors from around the world, design is positioned in context with recent crises such as global pandemics, racial reckoning, political unrest, and natural disasters. This handbook will be invaluable to researchers, students, and practitioners across all subdisciplines of design, architecture, business, energy management, visual arts, and environmental studies, among others.

Routledge

April 2024 : 662pp

Hb: 978-1-032-43033-1 : **£230**

eBook: 978-1-003-36543-3

* For full contents and more information, visit: www.routledge.com/9781032430331

Routledge Handbook of Sustainable Product Design



Jonathan Chapman University of Brighton, UK

Written by designers, for designers, The Routledge Handbook of Sustainable Product Design presents the first systematic overview of the burgeoning field of sustainable product design. Brimming with intelligent viewpoints, controversial propositions, practical examples and theoretical analyses it provides an essential point of reference for anyone working at the intersection of product design, user experience and sustainability. Comprising 46 chapters across 6 thematic parts, the book's contributors include the most significant international thinkers in the field.

Routledge

March 2019 : 584pp

Pb: 978-0-367-20031-2 : **£45.99**

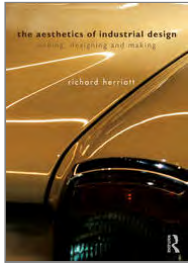
Hb: 978-1-138-91017-1 : **£215**

eBook: 978-1-315-69330-9

* For full contents and more information, visit: www.routledge.com/9780367200312

The Aesthetics of Industrial Design

Seeing, Designing and Making



Richard Herriott

This textbook introduces design students to key principles of three-dimensional form, bridging aesthetics and practical design objectives. It explores how we see and what it is that characterises visually appealing and satisfactory design. Written by an experienced designer, educator and researcher, the book equips students with the knowledge and understanding of how aesthetically superior design is distinct from lesser work. It explains the key principles and concepts they can incorporate into their own designs, encourages readers to investigate and experiment with real design problems, and enables them to verbally communicate their design intentions.

Routledge

December 2021 : 224pp

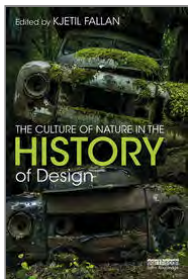
Pb: 978-1-032-02418-9 : **£35.99**

Hb: 978-1-032-02419-6 : **£135**

eBook: 978-1-003-18330-3

* For full contents and more information, visit: www.routledge.com/9781032024189

The Culture of Nature in the History of Design



Edited by **Kjetil Fallan**

The Culture of Nature in the History of Design confronts the dilemma caused by design's pertinent yet precarious position in environmental discourse through interdisciplinary conversations about the design of nature and the nature of design. Demonstrating that the deep entanglements of design and nature have a deeper and broader history than contemporary discourse on sustainable design and ecological design might imply, this book presents case studies ranging from the 18th to the 21st Century and from Singapore to Mexico.

Routledge

April 2019 : 274pp

Pb: 978-1-138-60192-5 : **£43.99**

Hb: 978-1-138-60191-8 : **£135**

eBook: 978-0-429-46984-8

* For full contents and more information, visit: www.routledge.com/9781138601925

The Future Designer

Anthropology Meets Innovation in Search of Sustainable Design



Michael Leube

This book adopts a unique approach to Design, blending anthropological perspectives with philosophy and cognitive science, and advocates for a thorough transformation of the existing design curriculum. It book presents a blueprint for fostering more sustainable patterns of production and consumption, grounded in human virtues, and proposes a new curriculum tailored towards prosociality and sustainability. The book will be useful for those studying and teaching design and anthropology, and it will also be an important tool for practicing designers and engineers interested in learning how to design for social and ecological awareness.

Routledge

June 2024 : 286pp

Pb: 978-1-032-73553-5 : **£38.99**

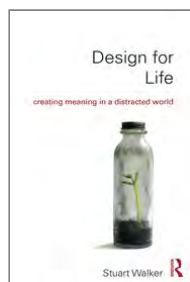
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Creating Meaning in a Distracted World



Stuart Walker Lancaster University, UK

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Hb: 978-1-138-23246-4 : **£135**

eBook: 978-1-315-31253-8

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Designers Visionaries and Other Stories

A Collection of Sustainable Design Essays



Jonathan Chapman, Nick Gant

First Published in 2007. Routledge is an imprint of Taylor & Francis, an informa company.

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August 2007 : 176pp

Pb: 978-1-844-07412-9 : **£37.99**

Hb: 978-1-844-07413-6 : **£175**

eBook: 978-1-849-77096-5

* For full contents and more information, visit: www.routledge.com/9781844074129

Digital Technologies for Sustainable Futures

Promises and Pitfalls



Edited by **Chiara Certomà, Fabio Iapao, Federico Martellozzo**

Series: Routledge Studies in Sustainability

This book critically examines the interplay between digitalisation and sustainability. It gathers a multitude of voices interrogating the premise that increased digitalisation automatically contributes to greater sustainability. The book exposes the extractive logics ingrained within digital capitalism and introduces alternatives like digital degrowth and the circular economy as viable, sustainable paths for the digital era. The volume will prove valuable for students, researchers, and practitioners across various fields, including Geography, Urban Studies, Sustainability Studies, Environmental Media Studies, Critical AI Studies, Innovation Studies, and the Digital Humanities.

Routledge

August 2024 : 216pp

Pb: 978-1-032-57851-4 : **£38.99**

Hb: 978-1-032-57854-5 : **£145**

eBook: 978-1-003-44131-1

* For full contents and more information, visit: www.routledge.com/9781032578514

2ND EDITION

Emotionally Durable Design

Objects, Experiences and Empathy



Jonathan Chapman University of Brighton, UK

Emotionally Durable Design presents counterpoints to our 'throwaway society' by developing powerful design tools, methods and frameworks that build resilience into relationships between people and things. This second edition features pull-out quotes, illustrated product examples, a running glossary and comprehensive stand firsts. It is a daring call to arms for professional designers, educators, researchers and students from in a range of disciplines from product design to architecture; framing an alternative genre of design that reduces the consumption and waste of resources by increasing the durability of relationships between people and things.

Routledge

May 2015 : 224pp

Pb: 978-0-415-73215-4 : **£43.99**

Hb: 978-0-415-73216-1 : **£175**

eBook: 978-1-315-73880-2

* For full contents and more information, visit: www.routledge.com/9780415732154

Future Autonomous Road Vehicles



Joseph Giacomini

This book provides a comprehensive overview of the past, present and future of autonomous road vehicles for professionals and students. It brings together the key historical developments in autonomous road vehicle design and the primary explorations of the design possibilities from science fiction. It also introduces five of the most popular future-facing speculative approaches used by designers, with science fiction prototyping identified as best suited to autonomous road vehicle application. Of use to those interested in the psychological, sociological and ethical factors involved in automotive design, human centred design, industrial design and technology.

Routledge

May 2024 : 230pp

Pb: 978-1-032-72421-8 : **£34.99**

Hb: 978-1-032-72422-5 : **£145**

eBook: 978-1-032-72423-2

* For full contents and more information, visit: www.routledge.com/9781032724218

Sustainable Design from Vision to Action



Edited by **Jeremy Faludi**

This book offers a comprehensive guide to the sustainable design of products, services, or related systems. It goes beyond concept explanations to provide you with practical instructions on how to apply the tools and methods to your own designs. This highly illustrated text will provide an excellent introduction to sustainable design in practice for industrial design and mechanical engineering students. It will also be useful for professional designers, engineers, and managers in industry.

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June 2025 : 342pp

Pb: 978-1-032-82474-1 : **£39.99**

Hb: 978-1-032-82475-8 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032824741

Design and Strategy

A Step-by-Step Guide



Wanda Grimsgaard

This major practical handbook bridges the gap between strategy and design, presenting a step-by-step design process with a strategic approach and extensive methods for innovation, strategy development, design methodology and problem solving. This book encourages all designers in product design and manufacturing, service design, communication design, branding, and advertising, to think beyond shape and colour to see design through the lens of strategy, process and problem solving, and all business managers, innovators and developers, to see the value in strategic design outcomes.

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December 2022 : 672pp

Pb: 978-1-032-12291-5 : **£39.99**

Hb: 978-1-032-12290-8 : **£125**

eBook: 978-1-003-22395-5

* For full contents and more information, visit: www.routledge.com/9781032122915

Making Jeans Green

Linking Sustainability, Business and Fashion



Paulina Szmydke-Cacciapalle

Consumers spend approximately \$60 billion on denim products every year. This consumption comes at a great cost, with thousands of litres of fresh water, hazardous chemicals and energy contributing to just one pair of jeans, leaving the environment and the industry vulnerable to climate change. Using facts, figures, case studies and anecdotes, this book investigates why the denim industry has been so slow to adopt green technologies and offers practical solutions to designers and fashion executives who want to switch to cleaner manufacturing, including those working in the 'fast fashion' sector.

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May 2018 : 188pp

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Hb: 978-0-815-39185-2 : **£135**

eBook: 978-1-351-20055-4

* For full contents and more information, visit: www.routledge.com/9780815391876

Repair

Sustainable Design Futures



Edited by **Markus Berger, Kate Irvin**

This book investigates repair as a contemporary expression of empowerment, agency, and resistance to our unmaking of the world and our environment. This richly illustrated book, with over 100 visuals, features an international, interdisciplinary group of contributors whose voices and artwork speak to multiple forms of repair as entry points for sparking novel insights into how we might attend to our broken social and physical worlds. Repair will be an essential tool for students, academics, researchers and practitioners in art, design and architecture practice and theory, cultural studies, environment and sustainability.

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September 2022 : 288pp

Pb: 978-1-032-15407-7 : **£36.99**

Hb: 978-1-032-15405-3 : **£135**

eBook: 978-1-003-24402-8

* For full contents and more information, visit: www.routledge.com/9781032154077

Sustainable by Design

Explorations in Theory and Practice



Stuart Walker

First Published in 2006. Routledge is an imprint of Taylor & Francis, an informa company.

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September 2006 : 256pp

Pb: 978-1-844-07353-5 : **£37.99**

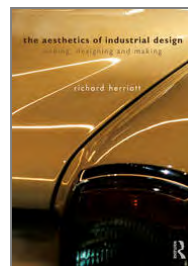
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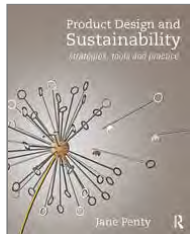
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Product Design and Sustainability

Strategies, Tools and Practice



Jane Pentty Central Saint Martins, University of the Arts London, UK

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Sustainable Design for the Built Environment



Rob Fleming, Saglinda H Roberts, Chitsanzo Isaac

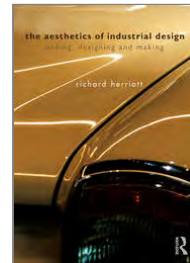
This groundbreaking and transformative textbook introduces sustainable design in a clear, concise, easy-to-read format. This new edition includes fully updated exercises and online resources, an increased focus on diversity, equity and inclusion in design, more international examples, perspectives and approaches, enhanced full colour visuals, and additional resources for further study. Supported by additional resources including additional reading for each chapter and classroom assignments, this book will be essential reading for students of sustainability and sustainable design.

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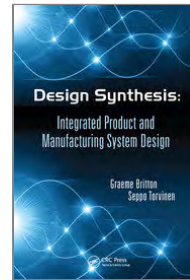
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Design Synthesis

Integrated Product and Manufacturing System Design



Graeme Arthur Britton Raffles University System, Singapore, **Seppo Torvinen** Tampere University of Technology, Kalvanto, Finland

This textbook provides a conceptual framework and methodologies for integrating product design and manufacturing. The readers should be able to use the framework and methodologies provided to jointly optimize the design/re-design of new products and manufacturing systems to produce better quality products faster and cheaper. The textbook includes homework problems and numerous real life examples. An SM and PP Slides will go along with the book to enhance textbook adoptions.

CRC Press

June 2018 : 382pp

Pb: 978-1-138-07374-6 : **£54.99**

Hb: 978-1-439-88164-4 : **£150**

eBook: 978-0-429-11197-6

* For full contents and more information, visit: www.routledge.com/9781138073746

Designers Visionaries and Other Stories

A Collection of Sustainable Design Essays



Jonathan Chapman , Nick Gant

First Published in 2007. Routledge is an imprint of Taylor & Francis, an informa company.

Routledge

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Hb: 978-1-844-07413-6 : **£175**

eBook: 978-1-849-77096-5

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Sustainable by Design

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Stuart Walker

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Pb: 978-1-844-07353-5 : **£37.99**

Hb: 978-1-844-07354-2 : **£155**

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The Future Designer

Anthropology Meets Innovation in Search of Sustainable Design



Michael Leube

This book adopts a unique approach to Design, blending anthropological perspectives with philosophy and cognitive science, and advocates for a thorough transformation of the existing design curriculum. It book presents a blueprint for fostering more sustainable patterns of production and consumption, grounded in human virtues, and proposes a new curriculum tailored towards prosociality and sustainability. The book will be useful for those studying and teaching design and anthropology, and it will also be an important tool for practicing designers and engineers interested in learning how to design for social and ecological awareness.

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Digital Technologies for Sustainable Futures

Promises and Pitfalls



Edited by **Chiara Certomà**, **Fabio Iapalo**, **Federico Martellozzo**

Series: *Routledge Studies in Sustainability*

This book critically examines the interplay between digitalisation and sustainability. It gathers a multitude of voices interrogating the premise that increased digitalisation automatically contributes to greater sustainability. The book exposes the extractive logics ingrained within digital capitalism and introduces alternatives like digital degrowth and the circular economy as viable, sustainable paths for the digital era. The volume will prove valuable for students, researchers, and practitioners across various fields, including Geography, Urban Studies, Sustainability Studies, Environmental Media Studies, Critical AI Studies, Innovation Studies, and the Digital Humanities.

Routledge

August 2024 : 216pp

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Self-Assembly Lab

Experiments in Programming Matter



Skylar Tibbits MIT, USA

What if structures could build themselves or adapt to fluctuating environments? Skylar Tibbits, director of the Self-Assembly lab in the Department of Architecture at MIT, crosses the boundaries between architecture, biology, materials science and the arts, to envision a world where material components can self-assemble to provide adapting structures and optimized fabrication solutions. The book examines the three main ingredients for Self-Assembly, includes interviews with practitioners involved in the work and presents research projects related to these topics to provide a complete first look at exciting future technologies in construction and self-transforming material products.

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Hb: 978-1-138-91003-4 : **£175**

eBook: 978-1-315-69361-3

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Routledge

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Design Process and Educational Practice



Mette Bak-Andersen

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Routledge

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Design of Mechanical Systems Based on Statistics

A Guide to Improving Product Reliability



Seong-woo Woo Director, Reliability Association of Korea

Series: Advanced Research in Reliability and System Assurance Engineering

This book introduces and explains the parametric ALT (Accelerated Life Testing) methodology, as a new reliability methodology based on statistics, to help avoid recalls in the marketplace. Parametric ALT also can ensure whether the reliability target of the final design of the mechanical product is achieved. It meets market requirement, of higher performance, reduction on material costs, and promotes higher reliability. This book will include problems and case studies to help with reader comprehension.

CRC Press
October 2024 : 376pp
Pb: 978-0-367-74561-5 : **£45.99**
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Future Autonomous Road Vehicles



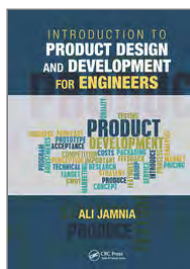
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Introduction to Product Design and Development for Engineers



Dr. Ali Jamnia

Introduction to Product Design and Development for Engineers provides guidelines and best practices for the design, development, and evaluation of engineered products. Created to serve fourth year undergraduate students in Engineering Design modules with a required project, the text covers the entire product design process and product life-cycle, from the initial concept to the design and development stages, and through to product testing, design documentation, manufacturability, marketing, and sustainability. Reflecting the author's long career as a design engineer, this text will also serve as a practical guide for students working on their capstone design projects.

CRC Press
June 2018 : 446pp
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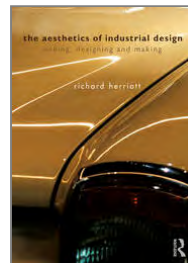
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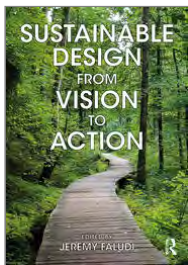
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Sustainable Design from Vision to Action



Edited by Jeremy Faludi

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Objects, Experiences and Empathy



Jonathan Chapman University of Brighton, UK

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Tools and Strategies for the Personalization of Objects



Edited by Fabio Schillaci

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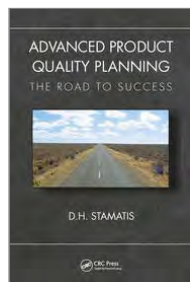
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The Road to Success



D. H. Stamatis

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CRC Press

March 2021 : 288pp

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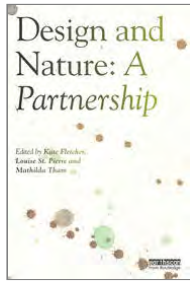
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Design and Nature

A Partnership



Edited by **Kate Fletcher**, **Louise St. Pierre**, **Mathilda Tham**

Organised as a dialogue between nature and design, this book explores design ideas, opportunities, visions and practices through relating and uncovering experience of the natural world. Presented as an edited collection of 25 wide-ranging short chapters, the book explores the possibility of new relations between design and nature, beyond human mastery and understandings of nature as resource and by calling into question the longstanding role for design as agent of capitalism. Design and Nature: A Partnership is a rich resource for designers who wish to learn to engage with sustainability from the ground up.

Routledge
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eBook: 978-1-351-11151-5

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Future Autonomous Road Vehicles



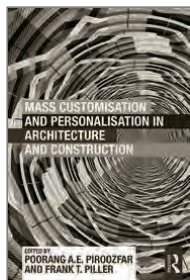
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Edited by **Poorang Piroozfar** University of Brighton, UK,
Frank Piller Aachen University, Germany

Bringing together contributions from some of the most prominent thinkers and practitioners in the field including Kasper S. Vibaek, Steve Kendall, Martin Bechthold, Mitchell M. Tseng, and Masa Noguchi, this book provides an overview of state-of-the-art practice related to the concept of customization and personalization within the built environment. Selected Contents: Part 1: Principles of Mass Customisation Part 2: Enabling Technologies, Designs, and Business Models Part 3: Practical Applications, Prototypes and Experiences Part 4: Future Topics, New Potentials, Emerging Challenges

Routledge
July 2013 : 272pp
Pb: 978-0-415-62284-4 : **£47.99**
Hb: 978-0-415-62283-7 : **£155**
eBook: 978-0-203-43773-5

* For full contents and more information, visit: www.routledge.com/9780415622844

Post-Petroleum Design



George Elvin

Despite the growing demand for design strategies to reduce our petroleum use, no one has yet brought together the lessons of the world's leading post-petroleum designers into a single resource. Post-Petroleum Design provides this, for the first time. Post-Petroleum Design gives design professionals the information they need to research, evaluate, and select materials, technologies and design strategies that meet the growing demand for sustainable design, plastic-free materials and process energy conservation. Designer profiles, studies, statistics and many colour illustrations all highlight the work—some of the best design work to be found anywhere, and showcased here for the first time.

Routledge
May 2015 : 276pp
Pb: 978-1-138-85390-4 : **£37.99**
Hb: 978-1-138-85389-8 : **£175**
eBook: 978-1-315-72249-8

* For full contents and more information, visit: www.routledge.com/9781138853904

Product Configurators

Tools and Strategies for the Personalization of Objects



Edited by **Fabio Schillaci**

This book provides a source of inspiration and a manual for designers, entrepreneurs and professionals who are looking into the practical application of product configurators. The book delves into the practical application of configurators using case studies of selected firms that present their most significant works. It offers the reader tips, suggestions, technical details and critical issues which need to be considered, from experienced actors and pioneers worldwide, which include: Unfold, Belgium; In-flexions, France; Nervous System, USA; Okinlab, Germany; ZeroLight, United Kingdom and much more.

Routledge
November 2017 : 264pp
Pb: 978-0-415-79013-0 : **£54.99**
Hb: 978-0-415-79012-3 : **£135**
eBook: 978-1-315-21357-6

* For full contents and more information, visit: www.routledge.com/9780415790130

Self-Assembly Lab

Experiments in Programming Matter



Skylar Tibbits MIT, USA

What if structures could build themselves or adapt to fluctuating environments? Skylar Tibbits, director of the Self-Assembly lab in the Department of Architecture at MIT, crosses the boundaries between architecture, biology, materials science and the arts, to envision a world where material components can self-assemble to provide adapting structures and optimized fabrication solutions. The book examines the three main ingredients for Self-Assembly, includes interviews with practitioners involved in the work and presents research projects related to these topics to provide a complete first look at exciting future technologies in construction and self-transforming material products.

Routledge
October 2016 : 204pp
Pb: 978-1-138-91006-5 : **£47.99**
Hb: 978-1-138-91003-4 : **£175**
eBook: 978-1-315-69361-3

* For full contents and more information, visit: www.routledge.com/9781138910065

Aesthetic Sustainability

Product Design and Sustainable Usage



Kristine Harper

Series: Routledge Studies in Sustainability

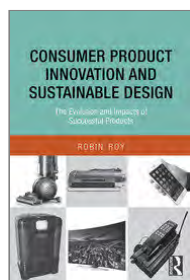
Aesthetic Sustainability offers guidelines for ways to reduce, rethink and reform consumption. Its focus on aesthetics adds a new dimension to the creation, as well as the consumption, of sustainable products. The chapters offer innovative ways of working with what the author calls expressional durability in the design process.

Routledge
September 2018 : 170pp
Pb: 978-1-138-36918-4 : **£43.99**
Hb: 978-1-138-72861-5 : **£135**
eBook: 978-1-315-19041-9

* For full contents and more information, visit: www.routledge.com/9781138369184

Consumer Product Innovation and Sustainable Design

The Evolution and Impacts of Successful Products



Robin Roy Open University, UK

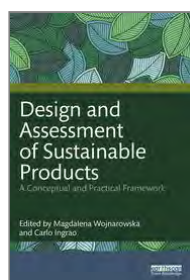
This book follows the innovation and evolution of consumer products from vacuum cleaners to mobile phones from their original inventions to the present day. It discusses how environmental concerns and legislation have influenced their design and the profound effects these products have had on society and culture. The book also uses the lessons from the successes and failures of examples of these consumer products to draw out practical guidelines for designers, engineers, marketers and managers on how to become more effective at product development, innovation and designing for environmental sustainability.

Routledge
November 2015 : 212pp
Pb: 978-0-415-86998-0 : **£43.99**
Hb: 978-0-415-86997-3 : **£175**
eBook: 978-1-315-71972-6

* For full contents and more information, visit: www.routledge.com/9780415869980

Design and Assessment of Sustainable Products

A Conceptual and Practical Framework



Edited by **Magdalena Wojnarowska, Carlo Ingrao**

This book questions the current definition of what makes a product sustainable and argues that a holistic approach to sustainable product design is required, one that considers all aspects of a product's life cycle from design to production, to use and then final disposal. It provides a comprehensive understanding of the theoretical and practical framework that underpins a sustainable product. It will be of interest for researchers and students studying sustainable product design, environmental studies, engineering, and sustainable business management, and also a useful resource for representatives of the business community, managers, technicians, decision-makers.

Routledge
December 2024 : 278pp
Pb: 978-1-032-71067-9 : **£36.99**
Hb: 978-1-032-71068-6 : **£135**
eBook: 978-1-032-71069-3

* For full contents and more information, visit: www.routledge.com/9781032710679

Digital Technologies for Sustainable Futures

Promises and Pitfalls



Edited by **Chiara Certomà, Fabio Iapao, Federico Martellozzo**

Series: Routledge Studies in Sustainability

This book critically examines the interplay between digitalisation and sustainability. It gathers a multitude of voices interrogating the premise that increased digitalisation automatically contributes to greater sustainability. The book exposes the extractive logics ingrained within digital capitalism and introduces alternatives like digital degrowth and the circular economy as viable, sustainable paths for the digital era. The volume will prove valuable for students, researchers, and practitioners across various fields, including Geography, Urban Studies, Sustainability Studies, Environmental Media Studies, Critical AI Studies, Innovation Studies, and the Digital Humanities.

Routledge
August 2024 : 216pp
Pb: 978-1-032-57851-4 : **£38.99**
Hb: 978-1-032-57854-5 : **£145**
eBook: 978-1-003-44131-1

* For full contents and more information, visit: www.routledge.com/9781032578514

2ND EDITION

Emotionally Durable Design

Objects, Experiences and Empathy



Jonathan Chapman University of Brighton, UK

Emotionally Durable Design presents counterpoints to our 'throwaway society' by developing powerful design tools, methods and frameworks that build resilience into relationships between people and things. This second edition features pull-out quotes, illustrated product examples, a running glossary and comprehensive stand firsts. It is a daring call to arms for professional designers, educators, researchers and students from in a range of disciplines from product design to architecture; framing an alternative genre of design that reduces the consumption and waste of resources by increasing the durability of relationships between people and things.

Routledge
May 2015 : 224pp
Pb: 978-0-415-73215-4 : **£43.99**
Hb: 978-0-415-73216-1 : **£175**
eBook: 978-1-315-73880-2

* For full contents and more information, visit: www.routledge.com/9780415732154

Making Jeans Green

Linking Sustainability, Business and Fashion



Paulina Szymdyke-Cacciapalle

Consumers spend approximately \$60 billion on denim products every year. This consumption comes at a great cost, with thousands of litres of fresh water, hazardous chemicals and energy contributing to just one pair of jeans, leaving the environment and the industry vulnerable to climate change. Using facts, figures, case studies and anecdotes, this book investigates why the denim industry has been so slow to adopt green technologies and offers practical solutions to designers and fashion executives who want to switch to cleaner manufacturing, including those working in the 'fast fashion' sector.

Routledge
May 2018 : 188pp
Pb: 978-0-815-39187-6 : **£37.99**
Hb: 978-0-815-39185-2 : **£135**
eBook: 978-1-351-20055-4

* For full contents and more information, visit: www.routledge.com/9780815391876

Post-Petroleum Design



George Elvin

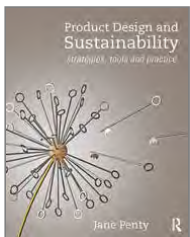
Despite the growing demand for design strategies to reduce our petroleum use, no one has yet brought together the lessons of the world's leading post-petroleum designers into a single resource. Post-Petroleum Design provides this, for the first time. Post-Petroleum Design gives design professionals the information they need to research, evaluate, and select materials, technologies and design strategies that meet the growing demand for sustainable design, plastic-free materials and process energy conservation. Designer profiles, studies, statistics and many colour illustrations all highlight the work—some of the best design work to be found anywhere, and showcased here for the first time.

Routledge
May 2015 : 276pp
Pb: 978-1-138-85390-4 : **£37.99**
Hb: 978-1-138-85389-8 : **£175**
eBook: 978-1-315-72249-8

* For full contents and more information, visit: www.routledge.com/9781138853904

Product Design and Sustainability

Strategies, Tools and Practice



Jane Penty Central Saint Martins, University of the Arts London, UK

In this perfect step-by-step introduction for students and professional designers, Jane Penty explains how to integrate sustainability throughout the design process. This engaging and accessible text features: a wide range of approaches, strategies and tools for designing more sustainably; practical examples, case studies and interviews which reveal the thinking behind products; a strong visual design, with over 300 high quality colour illustrations including diagrams, graphs, and timelines; learning summaries, annotated resource, further reading suggestions and a glossary.

Routledge
August 2019 : 376pp
Pb: 978-1-138-30198-6 : **£43.99**
Hb: 978-1-138-30197-9 : **£135**
eBook: 978-0-203-73207-6

* For full contents and more information, visit: www.routledge.com/9781138301986

Reintroducing Materials for Sustainable Design

Design Process and Educational Practice



Mette Bak-Andersen

Reintroducing Materials for Sustainable Design provides instrumental theory and practical guidance to bring materials back into a central role in the design process and education. This book offers a way to acquire the material knowledge necessary to design physical objects for sustainability. It reinforces the key role and responsibility of designers and encourages designers to take back control over the ideation and manufacturing process. Finally, it addresses the educational practice involved and the potential implications for design education following implementation, looking at didactics, facilities and expertise.

Routledge
May 2021 : 184pp
Pb: 978-0-367-62519-1 : **£32.99**
Hb: 978-0-367-62521-4 : **£135**
eBook: 978-1-003-10952-5

* For full contents and more information, visit: www.routledge.com/9780367625191

Repair

Sustainable Design Futures



Edited by Markus Berger, Kate Irvin

This book investigates repair as a contemporary expression of empowerment, agency, and resistance to our unmaking of the world and our environment. This richly illustrated book, with over 100 visuals, features an international, interdisciplinary group of contributors whose voices and artwork speak to multiple forms of repair as entry points for sparking novel insights into how we might attend to our broken social and physical worlds. Repair will be an essential tool for students, academics, researchers and practitioners in art, design and architecture practice and theory, cultural studies, environment and sustainability.

Routledge
September 2022 : 288pp
Pb: 978-1-032-15407-7 : **£36.99**
Hb: 978-1-032-15405-3 : **£135**
eBook: 978-1-003-24402-8

* For full contents and more information, visit: www.routledge.com/9781032154077

Sustainable by Design

Explorations in Theory and Practice



Stuart Walker

First Published in 2006. Routledge is an imprint of Taylor & Francis, an informa company.

Routledge
September 2006 : 256pp
Pb: 978-1-844-07353-5 : **£37.99**
Hb: 978-1-844-07354-2 : **£155**
eBook: 978-1-849-77274-7

* For full contents and more information, visit: www.routledge.com/9781844073535

2ND EDITION

Sustainable Design for the Built Environment



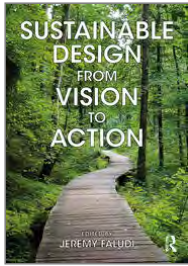
Rob Fleming, Saglinda H Roberts, Chitsanzo Isaac

This groundbreaking and transformative textbook introduces sustainable design in a clear, concise, easy-to-read format. This new edition includes fully updated exercises and online resources, an increased focus on diversity, equity and inclusion in design, more international examples, perspectives and approaches, enhanced full colour visuals, and additional resources for further study. Supported by additional resources including additional reading for each chapter and classroom assignments, this book will be essential reading for students of sustainability and sustainable design.

Routledge
November 2024 : 316pp
Pb: 978-1-032-51082-8 : **£38.99**
Hb: 978-1-032-51084-2 : **£135**
eBook: 978-1-003-40102-5

* For full contents and more information, visit: www.routledge.com/9781032510828

Sustainable Design from Vision to Action



Edited by **Jeremy Faludi**

This book offers a comprehensive guide to the sustainable design of products, services, or related systems. It goes beyond concept explanations to provide you with practical instructions on how to apply the tools and methods to your own designs. This highly illustrated text will provide an excellent introduction to sustainable design in practice for industrial design and mechanical engineering students. It will also be useful for professional designers, engineers, and managers in industry.

Routledge

June 2025 : 342pp

Pb: 978-1-032-82474-1 : **£39.99**

Hb: 978-1-032-82475-8 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032824741

Sustainable Product Design and Development



Anoop Desai Associate Professor, Mechanical Engineering, Georgia Southern University, GA, **Anil Mital** University of Cincinnati, Ohio, USA

Series: Industrial Engineering

This book discusses sustainable product design and development. It considers prolonging the life of a product and minimizing the environmental impact. The book will not only present design practices, but also costing information on designing products for Sustainability. This book will be of interest to professionals, engineering students, environmental scientists, and those in the business environment.

CRC Press

October 2024 : 284pp

Pb: 978-0-367-63398-1 : **£47.99**

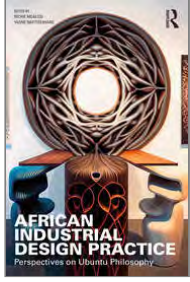
Hb: 978-0-367-34321-7 : **£120**

eBook: 978-0-429-32780-3

* For full contents and more information, visit: www.routledge.com/9780367633981

African Industrial Design Practice

Perspectives on Ubuntu Philosophy



Edited by **Richie Moalosi, Yaone Rapitsenyane**

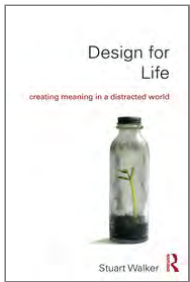
The underlying principle of this book is the African philosophy of Ubuntu, which acts as a guide for developing empathic products and services. It makes the case that empathy is the key to any successful product and service design project because it enables designers to make wise design choices that align with users' demands. Fifteen chapters provide the latest industrial design developments, techniques, and processes targeting emerging economies. This will be an essential textbook for undergraduates, postgraduates, instructors, and beginner designers in emerging economies to provide regionally contextualised design processes, illustrated examples, and outcomes.

Routledge
September 2023 : 326pp
Pb: 978-1-032-21831-1 : **£38.99**
Hb: 978-1-032-21836-6 : **£135**
eBook: 978-1-003-27024-9

* For full contents and more information, visit: www.routledge.com/9781032218311

Design for Life

Creating Meaning in a Distracted World



Stuart Walker Lancaster University, UK

Design for Life draws on leading contemporary discussions from philosophy, psychology, the social sciences, history and religion, to describes why change is necessary – not only because of environmental breakdown and social disparities within and between nations, but also because, at the personal level, contemporary, technological ways of living are creating frenetic, distracted lives that are being linked to anxiety, depression and ennui. The inadequacies and damaging effects of this worldview are presented both through reasoned argument and through a series of designed artefacts that highlight its limitations and critique its assumptions.

Routledge
April 2017 : 296pp
Pb: 978-1-138-23247-1 : **£32.99**
Hb: 978-1-138-23246-4 : **£135**
eBook: 978-1-315-31253-8

* For full contents and more information, visit: www.routledge.com/9781138232471

2ND EDITION

Emotionally Durable Design

Objects, Experiences and Empathy



Jonathan Chapman University of Brighton, UK

Emotionally Durable Design presents counterpoints to our 'throwaway society' by developing powerful design tools, methods and frameworks that build resilience into relationships between people and things. This second edition features pull-out quotes, illustrated product examples, a running glossary and comprehensive stand firsts. It is a daring call to arms for professional designers, educators, researchers and students from in a range of disciplines from product design to architecture; framing an alternative genre of design that reduces the consumption and waste of resources by increasing the durability of relationships between people and things.

Routledge
May 2015 : 224pp
Pb: 978-0-415-73215-4 : **£43.99**
Hb: 978-0-415-73216-1 : **£175**
eBook: 978-1-315-73880-2

* For full contents and more information, visit: www.routledge.com/9780415732154

Interaction for Designers

How To Make Things People Love



Brian L.M. Boyl Art Center College of Design, Pasadena, California, USA

Interaction for Designers shows you how connect a product with its users, whether it's a simple toaster, a complex ecosystem of intelligent devices, or a single app on your smart phone. This book covers the entire design process so you can start with an idea and carry it through to an engaging final design.

Routledge
April 2019 : 336pp
Pb: 978-0-415-78725-3 : **£45.99**
Hb: 978-0-415-78724-6 : **£135**
eBook: 978-1-315-22622-4

* For full contents and more information, visit: www.routledge.com/9780415787253

People and Products

Consumer Behavior and Product Design



Allan J. Kimmel ESCP Europe, France

By examining the interface between consumer behaviour and new product development, this book demonstrates the ways in which consumers contribute to product design, enhance product utility, and determine brand identity. This is the first book to explore this interface in detail, exploring issues like: the attributes and qualities which consumers demand from products and services; design and form and how that facilitates product usage; and technological developments and how they have changed the ways consumers interact with products. This exciting volume is relevant to students of marketing, consumer behaviour, product development, technology, engineering, design and branding.

Routledge
March 2015 : 320pp
Pb: 978-1-138-81225-3 : **£35.99**
Hb: 978-1-138-81224-6 : **£89.99**
eBook: 978-1-315-74891-7

* For full contents and more information, visit: www.routledge.com/9781138812253

A	Emotionally Durable Design	18
Advanced Product Quality Planning	Emotionally Durable Design	15
Aesthetic Sustainability	Emotionally Durable Design	21
Aesthetic Sustainability	F	
African Industrial Design Practice	Future Autonomous Road Vehicles	14
African Industrial Design Practice	Future Autonomous Road Vehicles	17
An Illustrated Guide to Furniture History	Future Autonomous Road Vehicles	6
B	I	
Branding and Product Design	Interaction for Designers	21
C	Introduction to Design Theory	4
Consumer Product Innovation and Sustainable Design	Introduction to Product Design and Development for Engineers	14
D	J	
Design and Assessment of Sustainable Products	Joinery, Joists and Gender	4
Design and Nature	M	
Design and Nature	Making Jeans Green	7
Design and Strategy	Making Jeans Green	18
Design and Strategy	Mass Customisation and Personalisation in Architecture and Construction	17
Design and Strategy	More-Than-Human Design in Practice	4
Design and Strategy	P	
Design and Strategy	People and Products	21
Design Attitude	Philosophy of Technology	4
Design Attitude	Post-Petroleum Design	19
Designers Visionaries and Other Stories	Post-Petroleum Design	17
Design for Education	Post-Petroleum Design	14
Design for Education	Post-Petroleum Design	13
Design for Health	Post-Petroleum Design	2
Design for Life	Product Configurators	17
Design for Life	Product Configurators	2
Design for Life	Product Configurators	16
Design of Mechanical Systems Based on Statistics	Product Configurators	15
Design Synthesis	Product Design and Sustainability	19
Digital Technologies for Sustainable Futures	Product Design and Sustainability	9
Digital Technologies for Sustainable Futures	R	
Digital Technologies for Sustainable Futures	Regreening the Built Environment	9
E	Reintroducing Materials for Sustainable Design	19
Emotionally Durable Design	Reintroducing Materials for Sustainable Design	13
	Repair	7
	Repair	19
	Routledge Handbook of Sustainable Design	4
	Routledge Handbook of Sustainable Product Design	4
	S	
	Self-Assembly Lab	12
	Self-Assembly Lab	17
	Sustainable by Design	10
	Sustainable by Design	19
	Sustainable by Design	7
	Sustainable Design for the Built Environment	19
	Sustainable Design for the Built Environment	9
	Sustainable Design from Vision to Action	15
	Sustainable Design from Vision to Action	20
	Sustainable Design from Vision to Action	6
	Sustainable Product Design and Development	20
	T	
	The Aesthetics of Industrial Design	9
	The Aesthetics of Industrial Design	7
	The Aesthetics of Industrial Design	5
	The Aesthetics of Industrial Design	14
	The Culture of Nature in the History of Design	5
	The Future Designer	5
	The Future Designer	11

