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Futuring Sustainability Ethics  
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# **Design Futuring Sustainability Ethics And New Practice**

An exploration of the political qualities of technology design, as seen in projects that span art, computer science, and consumer products. In *Adversarial Design*, Carl DiSalvo examines the ways that technology design can provoke and engage the political. He describes a practice, which he terms “adversarial design,” that

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uses the means and forms of design to challenge beliefs, values, and what is taken to be fact. It is not simply applying design to politics—attempting to improve governance for example, by redesigning ballots and polling places; it is implicitly contestational and strives to question conventional approaches to political issues. DiSalvo explores the political qualities and potentials of design by examining a series of projects that span design and art, engineering and computer science, agitprop

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and consumer products. He views these projects—which include computational visualizations of networks of power and influence, therapy robots that shape sociability, and everyday objects embedded with microchips that enable users to circumvent surveillance—through the lens of agonism, a political theory that emphasizes contention as foundational to democracy. DiSalvo's illuminating analysis aims to provide design criticism with a new approach for thinking about the relationship

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between forms of political expression, computation as a medium, and the processes and products of design.

How could a more just and sustainable living environment be like? This anthology seeks to shed new light on how the design of built living environments shapes the possibilities for everyday life to be sustainable—The centerpiece of the anthology is a selection of speculative design experiments, including e.g. Weather Wash, Biophilia, and

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Interstitial

Interventions. Moving from an analysis of 'what is' to an exploration of 'what if', the design experiments seek to articulate the limitations of ecomodernist urban sustainability while also opening up for alternatives. The design experiments are complemented by a number of essays, expanding on frustrations and reflections, and providing insight into how a design driven research process might be carried out, including methodological

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troubles. If you have an interest in planning and design for urban sustainability, futures studies and speculation, and/or design-driven research, then this book is definitely for you. Sustainability is now a buzzword both among professionals and scholars. However, though climate change and resource depletion are now widely recognized by business as major challenges, and while new practices like 'green design' have emerged, efforts towards change

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remain weak and fragmented. Exposing these limitations, Design Futuring systematically presents ideas and methods for Design as an expanded ethical and professional practice. Design Futuring argues that responding to ethical, political, social and ecological concerns now requires a new type of practice that recognizes design's importance in overcoming a world made unsustainable. Illustrated throughout with international case material, Design Futuring presents the author's

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ground-breaking ideas in a coherent framework, focusing specifically on the ways in which concerns for ethics and sustainability can change the practice of Design for the twenty-first century. Design Futuring - a pathfinding text for the new era - extends far beyond Design courses and professional practice, and will also be invaluable to students and practitioners of Architecture, the Creative Arts, Business and Management. Care and Design: Bodies, Buildings, Cities connects



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the study of design with care, and explores how concepts of care may have relevance for the ways in which urban environments are designed. It explores how practices and spaces of care are sustained specifically in urban settings, thereby throwing light on an important arena of care that current work has rarely discussed in detail.

Creativity in Schools  
How Individuals and  
Organisations Are Working  
Together to Create a  
Sustainable World

The Routledge Handbook of

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Research Methods for  
Social-Ecological Systems  
Sustainability, Ethics and  
New Practice

Multidisciplinary  
Approaches to an Evolving  
System

Design Philosophy Papers  
Sources, Theory, Values  
and Application Domains

**The author outlines the major ideas and issues that have emerged in the growing movement of green architecture and sustainable design over the last thirty years. The book asks individuals to understand how the philosophy of sustainable design can affect their own work.**

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**Design Futuring argues that ethical, political, social and ecological concerns now require a new type of practice which recognises design's importance in overcoming a world made unsustainable. By using case studies in industrial design and architecture, Tony Fry exposes the limitations of existing 'sustainable design'.**

**This book examines how sustainability has the potential to transform both the fashion system and the innovators who work within it. Sustainability is arguably the defining theme of the twenty-first century. The issues in fashion are**

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broad-ranging and include labour abuses, toxic chemicals use and conspicuous consumption, giving rise to an undeniable tension between fashion and sustainability. The book is organized in three parts. The first part is concerned with transforming fashion products across the garment's lifecycle and includes innovation in materials, manufacture, distribution, use and re-use. The second part looks at ideas that are transforming the fashion system at root into something more sustainable, including new business models that reduce material

throughput. The third section is concerned with transforming the role of fashion designers and looks to examples where the designer changes from a stylist or creator into a communicator, activist or facilitator.

This handbook enumerates every aspect of incorporating moral and societal values into technology design, reflects the fact that the latter has moved on from strict functionality to become sensitive to moral and social values such as sustainability and accountability. Aimed at a broad readership that

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includes ethicists, policy makers and designers themselves, it proffers a detailed survey of how technological, and institutional, design must now reflect awareness of ethical factors such as sustainability, human well-being, privacy, democracy and justice, inclusivity, trust, accountability, and responsibility (both social and environmental). Edited by a trio of highly experienced academic philosophers with a specialized interest in the ethical dimensions of technology and human creativity, this syncretic handbook collates an array

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of published material and offers a studied, practical introduction to the field. The volume addresses myriad aspects at the intersection of technology design and ethics, enabling designers to adopt a constructive approach in anticipating, preventing, and resolving societal and ethical issues affecting their work. It covers underlying theory; discrete values such as democracy, human well-being, sustainability and justice; and application domains themselves, which include architecture, bio- and nanotechnology, and military hardware. As the first exhaustive survey of a field

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whose importance is characterized by almost exponential growth, it represents a compelling addition to a formerly atomized literature.

**Speculative Everything  
Design, Ecology, Politics  
An Introduction to Urban  
Metrofitting**

**The Disobedience of Design  
Sustainability, Ethics, and  
New Practice**

**Designs for the Pluriverse  
Care and Design**

Unprecedented challenges await the future of the world's cities. Accelerating population pressure, climate change, food insecurity, poverty and geopolitical instability – in the



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face of such problems our current attempts at producing a sustainable agenda for the world's cities appear fragmented and inadequate. Fresh thinking is needed. In *Remaking Cities*, renowned design theorist Tony Fry brings a conceptual design perspective to the challenge of urban sustainability and resilience. In a typically far-sighted and provocative work, Fry presents ideas and actions for 'metrofitting' – a new kind of practice in architecture and urban design. Metrofitting expands the technological concept of retrofit up to the

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city scale, placing social, cultural, political and ethical concerns at its heart.

Metrofitting is not about visionary technology, it is about transforming existing cities by combining available resources with human creativity, prompted by new thinking about new and old urban problems. It requires overcoming outmoded Eurocentric assumptions of what constitutes a city, rethinking their forms and structures, and understanding their metabolic processes and social and economic functions. This book provides

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conceptually strong practical approaches that will ultimately change the whole way we view cities and the way the urban future is designed. Illustrated with international case studies of metrofitting in action, *Remaking Cities* will provoke and stimulate debate among architects, urban designers, and anyone concerned with the urban environment and social and cultural change. This open access book introduces design for Sustainable Product-Service Systems (S.PSS) and for Sustainable Distributed Economies (S.DE). These are

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introduced as technical and operative tools for the development of a new generation of designers, responsible and capable of designing environmentally, socially and economically sustainable solutions, accessible to all. The book provides a comprehensive framework and also practical tools to support the system design for sustainability process. It overviews methodologies, tools and strategies for Sustainable PSS design applied to Distributed Economies (DE) and provides strategies and design

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guidelines. All of these are highlighted and expanded upon with international case studies.

How to use design as a tool to create not only things but ideas, to speculate about possible futures. Today designers often focus on making technology easy to use, sexy, and consumable. In *Speculative Everything*, Anthony Dunne and Fiona Raby propose a kind of design that is used as a tool to create not only things but ideas. For them, design is a means of speculating about how things could be—to imagine possible

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futures. This is not the usual sort of predicting or forecasting, spotting trends and extrapolating; these kinds of predictions have been proven wrong, again and again. Instead, Dunne and Raby pose “what if” questions that are intended to open debate and discussion about the kind of future people want (and do not want). Speculative Everything offers a tour through an emerging cultural landscape of design ideas, ideals, and approaches. Dunne and Raby cite examples from their own design and teaching and from other projects from

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fine art, design, architecture, cinema, and photography.

They also draw on futurology, political theory, the philosophy of technology, and literary fiction. They show us, for example, ideas for a solar kitchen restaurant; a flypaper robotic clock; a menstruation machine; a cloud-seeding truck; a phantom-limb sensation recorder; and devices for food foraging that use the tools of synthetic biology. Dunne and Raby contend that if we speculate more—about everything—reality will become more malleable. The ideas freed by speculative

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design increase the odds of achieving desirable futures. The Routledge Handbook of Sustainable Design considers the design, not only of artifacts, but of structures, systems, and interactions that bear our decisions and identities in the context of sustaining our shared planet. In addressing issues of design for global impact, behavior change, systems and strategy, ethics and values, this handbook presents a unique and powerful design perspective. Just as there are multiple definitions of design, so there are several definitions



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of sustainability, making it difficult to find unity. The term can sometimes be seen as a goal to achieve, or a characteristic to check off on a list of criteria. In actuality, we will never finish being sustainable. We must instead always strive to design, work, and live sustainably. The voices throughout this handbook present many different characteristics, layers, approaches, and perspectives in this journey of sustaining. This handbook divides into five sections, which together present a holistic approach to

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understanding the many facets of sustainable design:  
Part 1: Systems and Design  
Part 2: Global Impact Part 3: Values, Ethics, and Identity  
Part 4: Design for Behavior Change Part 5: Moving Forward This handbook will be invaluable to those wishing to broaden their understanding of sustainable design and students and practitioners of Environmental Studies, Architecture, Product Design and the Visual Arts.  
Fashion Ethics  
Developing Citizen Designers  
Design Anthropology  
Design for Sustainable

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Change

Design, Fiction, and Social  
Dreaming

Intersecting Histories,  
Pedagogies, and Perspectives

Fashion & Sustainability

In Designs for the  
Pluriverse Arturo

Escobar presents a new  
vision of design theory  
and practice aimed at  
channeling design's  
world-making capacity  
toward ways of being and  
doing that are deeply  
attuned to justice and  
the Earth. Noting that  
most design—from  
consumer goods and

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digital technologies to built environments—currently serves capitalist ends, Escobar argues for the development of an “autonomous design” that eschews commercial and modernizing aims in favor of more collaborative and placed-based approaches. Such design attends to questions of environment, experience, and politics while focusing on the production of human experience based on the

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radical interdependence of all beings. Mapping autonomous design's principles to the history of decolonial efforts of indigenous and Afro-descended people in Latin America, Escobar shows how refiguring current design practices could lead to the creation of more just and sustainable social orders.

Design Anthropology brings together leading international design theorists, consultants

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and anthropologists to explore the changing object culture of the 21st century. Decades ago, product designers used basic market research to fine-tune their designs for consumer success. Today the design process has been radically transformed, with the user center-stage in the design process. From design ethnography to culture probing, innovative designers are employing anthropological methods

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to elicit the meanings rather than the mere form and function of objects. This important volume provides a fascinating exploration of the issues facing the shapers of our increasingly complex material world. The text features case studies and investigations covering a diverse range of academic disciplines. From IKEA and anti-design to erotic twenty-first-century needlework and online interior decoration, the book

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positions itself at the intersections of design, anthropology, material culture, architecture, and sociology.

"Illustrated throughout with international case material, Design Futuring presents the author's ground-breaking ideas in a coherent framework, focusing specifically on the ways in which concerns for ethics and sustainability can change the practice of Design for the twenty-first century. Design



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Futuring extends far beyond Design courses and professional practice, and will also be invaluable to students and practitioners of Architecture, the Creative Arts. Business and Management." --Jacket. Sustainability has emerged as a central issue for contemporary societies and for the world community as a whole. Furthermore, many of the social and environmental concerns

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that are embodied in the term 'sustainability' are directly or indirectly related to design. Designers help to define our human made environment - how it is produced, how it is used, and how long it endures. Despite some forty years of development and increased awareness of the critical relationships that exist between design decisions and modes of production, energy use, environmental impacts,

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the nature of work and human exploitation, design for sustainability is still not widely understood or followed. The Handbook of Design for Sustainability presents a comprehensive, state-of-the-art overview of this crucial subject - its development, its methods, its practices and its potential futures. Bringing together leading international scholars and new researchers to provide a substantive

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insight into the latest thinking and research within the field, The Handbook covers a breadth of historical and theoretical understandings and includes a series of original essays that explore methods and approaches for designers and design educators. The Handbook presents the first systematic overview of the subject that, in addition to methods and examples, includes historical perspectives,

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philosophical approaches, business analyses, educational insights and emerging thinking. It is an invaluable resource for design researchers and students as well as design practitioners and private and public sector organizations wishing to develop more sustainable directions.

Defuturing  
Design Activism  
Remaking Cities  
Beautiful Strangeness  
for a Sustainable World  
Designing Sustainability

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for All

The Design of  
Sustainable Product-  
Service Systems Applied  
to Distributed Economies  
The Future of  
Architecture

Design and Anthropology  
challenges conventional thinking  
regarding the nature of design and  
creativity, in a way that  
acknowledges the improvisatory  
skills and perceptual acuity of  
people. Combining theoretical  
investigations and documentation of  
practice based experiments, it  
addresses methodological questions  
concerning the re-conceptualisation  
of the relation between design and

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use from both theoretical and practice-based positions. Concerned with what it means to draw 'users' into processes of designing and producing this book emphasises the creativity of design and the emergence of objects in social situations and collaborative endeavours. Organised around the themes of perception and the user-producer, skilled practices of designing and using, and the relation between people and things, the book contains the latest work of researchers from academia and industry, to enhance our understanding of ethnographic practice and develop a research agenda for the emergent field of

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design anthropology. Drawing together work from anthropologists, philosophers, designers, engineers, scholars of innovation and theatre practitioners, *Design and Anthropology* will appeal to anthropologists and to those working in the fields of design and innovation, and the philosophy of technology and engineering.

*Persistent Fools: Cunning Intelligence and the Politics of Design* explores the manipulative qualities of design, the unsustainability of capitalist rationalism, the anti-strategies of cunning intelligence, and new approaches for responsible and ethical design practice. Design is not



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a purely benevolent activity. Even in an age of human-centered design (or perhaps because of it), the practice is linked to deception. But rather than this being a downfall, Persistent Fools argues that we can use its deceptive qualities to introduce a new way of strategizing: cunning intelligence over rational logic. The very connection between design, deception, and capitalist exploitation might also be the lever for shifting power relations back toward sustainability, if only we can flip the dominant logic. Persistent Fools argues that design is a political act and should be understood as such. It is a call to action for designers to shed the baggage of industrialist

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thinking and adopt new forms of futuring that are better equipped to deal with social and political complexity.

Design Futuring Sustainability,  
Ethics and New Practice Bloomsbury  
USA Academic

This book is an essential contribution to the transdisciplinary field of critical design studies. The essays in this collection locate design at the center of a series of interrelated planetary crises, from climate change, nuclear war, and racial and geopolitical violence to education, computational culture, and the loss of the commons. In doing so, the essays propose a range of needed interventions in order to

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transform design itself and its role within the shifting realities of a planetary crisis. It challenges the widely popular view that design can contribute to solving world problems by exposing how this attitude only intensifies the problems we currently face. In this way, the essays critique the dominant modes of framing the meaning and scope of design as a largely Anglo-European 'problem-solving' practice. By drawing on post-development theory, decolonial theory, black studies, continental philosophy, science and technology studies, and more, the contributions envision a critical and speculative practice that problematises both its

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engagement with planet and itself. The essays in this collection will appeal to design theorists and practitioners alike, but also to scholars and students generally concerned with how the past and future of design is implicated in the unfolding complexity of ecological devastation, racial and political violence, coloniality, technological futures, and the brutality of modern Western culture generally.

The Handbook of Design for  
Sustainability  
Meanings of Designed Spaces  
Towards the Ecocene  
Consumerism, Sustainability and  
Design  
Design and Anthropology

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Food futures: ethics, science and culture

***Steel has, over centuries, played a crucial role in shaping our material, and in particular, urban landscapes. This books undertakes a cultural and ecological history of the material, examining the relationship between steel and design at a micro and macro level – in terms of both what it has been used to design and how it has functioned as a 'world-making force'. The research for the book is informed by diverse sources including industry journals,***

***contemporary accounts and technical literature – all framed by rich, early accounts of iron and steel making from the middle ages to the opening of the industrial age, and most notably, the crucial works of Vannoccio Biringuccio, Georgius Agricola, Andrew Ure and Harry Scrivenor. In contrast, trans-cultural accounts of the history of metallurgy from eminent sinologists and cultural historians like Joseph Needham and G.E.R. Lloyd are used. Readings on the pre-history and history of science, as well as histories and***

***philosophies technology from scholars such as Siegfried Giedion, Merritt Roe Smith, L.T.C Rolt, Robert B. Gordon inform the analysis. Social and economic history from historians such as Eric Hobsbawn, William T. Hogan and David Brody are consulted; labour process theory is also examined, particularly the influential writings of F.W. Taylor in the late 19th and early 20th centuries and his contemporary critics, like David Nobel and Harry Braverman. Many other disciples also inform the***

***account: histories of urban design and architecture, transport and military history, environmental history and geography.***

***This volume presents for the first time in English a curated selection of writings by the design thinker Gui Bonsiepe from the 1960s to the present day. Addressing as it does questions of non-Western design and a design practice that is both radical and democratic, Bonsiepe's work has assumed new importance for current debates inspired by global political and environmental crises.***



***Structured into three sections, the anthology first addresses Bonsiepe's work on design theory and practice, particularly in relation to the history and contemporary relevance of the Ulm design school, where Bonsiepe was a professor in the 1960s. A second section then represents Bonsiepe's writings after his move to South America in the 1960s and '70s, where he worked as a design consultant for the Allende government in Chile before the military takeover. In writings from the period, Bonsiepe explores the***

***concept of design 'at the periphery' and the relationship of national design traditions and practices in Latin American countries to those of 'the core' - Western European and American design. The final section comprises selections of Bonsiepe's writings on design in relation to literacy and language, visuality and cognition. This indispensable volume includes new interviews with Bonsiepe as well as his original, previously unpublished texts. Sustainable Design for Interior Environments is the first***

***comprehensive textbook on the subject and is intended for students and instructors as well as practicing designers, architects, contractors, and facility managers. With over 150 illustrations, and interactive activities, the text provides a complete overview of the principles and strategies for sustainable design.***

***“Once one understands the nature and magnitude of defuturing as the negation of world futures, how one has to account for the history and making of the material world – including design - dramatically***

***changes. Defuturing as our condition forces the generation of a new philosophy of design.” With these thoughts this book presents a radically new understanding of the history, context and futures of designing. First published in 1999, now reissued with a new preface by the author, Defuturing: A New Design Philosophy is a prescient and powerful account of what it means to comprehend that we live in world that is taking away futures for ourselves and non-human others. Arguing that designing is doubly***

***implicated in this process, first in its roles in helping to create the unsustainable, but second, re-thought through the lens of defuturing, as a mode of acting in the world that can help contest the negation of the world, Defuturing transforms our comprehension of designing and of how futures can be constituted. Working not through abstract theorizing but through the analysis of concrete examples, the book uses historical material on design to expose the archaeology of defuturing. Shattering the illusion that the***

***future simply “is”, Defuturing  
confronts designing with the  
challenge of remaking while  
offering the elements of a new  
practical reasoning of design  
acting.***

***Resettlement Challenges for  
Displaced Populations and  
Refugees***

***Design for Change***

***Design in Crisis***

***Somebody Else’s Problem***

***New Worlds, Philosophies and  
Practices***

***A New Design Philosophy***

***Sustainable Real Estate***

Gold winner of the AXIOM

Business Book Award in the

category of Philanthropy, Non-

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Profit, Sustainability. Please see: <http://www.axiomawards.com/77/award-winners/2017-winners>

Consumerism promises a shortcut to a 'better' life through the accumulation of certain fashionable goods and experiences. Over recent decades, this has resulted in a rising tide of cheap, short-lived goods produced, used and discarded in increasingly rapid cycles, along the way depleting resources and degrading environmental systems. Somebody Else 's Problem calls for a radical change in how we think about our material world, and how we design, make and use the products and services we need. Rejecting the idea that individuals

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alone are responsible for the environmental problems we face, it challenges us to look again at the systems, norms and values we take for granted in daily life, and their cumulative role in our environmental crisis. Robert Crocker presents an overview of the main forces giving rise to modern consumerism, looks closely at today ' s accelerating consumption patterns and asks why older, more ' custodial ' patterns of consumption are in decline. Avoiding simplistic quick-fix formulas, the book explores recommendations for new ways of designing, making and using goods and services that can reduce our



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excess consumption, but still contribute to a good and meaningful life.

There is mounting evidence that ever-increasing consumption in the developed world is leading us down a path to ecological collapse, and doing our society no favours. Design and architecture are often willing accomplices in consolidating the deep social and political problems of spiralling consumption. But how does sustainable consumption affect design, and what role can design play in bringing about change? Designing De-growth argues that, rather than being a threat to design, an absolute decline in material consumption offers up a huge

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Design academics and practitioners are facing a multiplicity of challenges in a dynamic, complex, world moving faster than the current design paradigm which is largely tied to the values and imperatives of commercial enterprise. Current education and practice need to evolve to ensure that the discipline of design meets sustainability drivers and equips students, teachers and professionals for the near-future. New approaches, methods and tools are urgently required as sustainability expands the context for design and what it means to be a 'designer'. Design activists, who comprise a diverse range of

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designers, teachers and other actors, are setting new ambitions for design. They seek to fundamentally challenge how, where and when design can catalyse positive impacts to address sustainability. They are also challenging who can utilise the power of the design process. To date, examination of contemporary and emergent design activism is poorly represented in the literature. This book will provide a rigorous exploration of design activism that will re-vitalise the design debate and provide a solid platform for students, teachers, design professionals and other disciplines interested in transformative (design) activism. Design Activism provides a

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comprehensive study of contemporary and emergent design activism. This activism has a dual aim - to make positive impacts towards more sustainable ways of living and working; and to challenge and reinvigorate design praxis,. It will collate, synthesise and analyse design activist approaches, processes, methods, tools and inspirational examples/outcomes from disparate sources and, in doing so, will create a specific canon of work to illuminate contemporary design discourse. Design Activism reveals the power of design for positive social and environmental change, design with a central activist role in the sustainability challenge.

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Inspired by past design activists and set against the context of global-local tensions, expressions of design activism are mapped. The nature of contemporary design activism is explored, from individual/collective action to the infrastructure that supports it generating powerful participatory design approaches, a diverse toolbox and inspirational outcomes. This is design as a political and social act, design to enable adaptive societal capacity for co-futuring.

Food is at the centre of human existence. We eat every day, not only to satisfy our physical needs but also as part of cultural and social interaction. Food choices and

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markets shape the agricultural landscape and the cities we live in. Whereas what we choose to eat and feed our family is part of who we are, a growing number of actors compete to influence our food habits, through marketing strategies and nutritional advice. And ethical considerations are coupled with every choice over food - whether related to production, distribution, consumption, food waste, policy in general, marketing or advice. Given the variety of implications the ' food problem ' entails, the construction of an inclusive society must redirect the concerns about food in the present to the imagination of future alternatives.

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The search for innovative solutions calls for multidisciplinary critical enquiry - and utopian thinking will be instrumental in that regard. This book brings together work by scholars in a wide range of disciplines addressing many different topics related to food futures. Topics covered include food and literature, food waste, food communication, food policy, corporate social responsibility and public procurement in food supply, responsible research and innovation in food production as well as sustainability and animal ethics and welfare.

Bodies, Buildings, Cities

Gui Bonsiepe

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How Design and Designers Can  
Drive the Sustainability Agenda  
Tensions and Dilemmas

Steel

Handbook of Ethics, Values, and  
Technological Design

Sustainable Design for Interior  
Environments

As society rapidly changes, so too does our relationship with design and the spaces of the designed world. Meanings of Designed Spaces is a collection of articles by-and interviews with-renowned design academics and professionals exploring how people make meaning using design today, and how "designed space" both shapes and is



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shaped by technology, business, ethics, culture, sustainability, and society. Questions posed include: How does designing our world provide meaning in our lives? How is this meaning constructed? What is design research within this framework? How do interiors influence our social, cultural, and psychological ways of being? How is the designer's role evolving in relationship to other stakeholders? What are possible ways we can understand and respond to the social, political, ethical, and cultural issues we face? The book's subject matter moves from the theoretical to the

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practical and includes, at times, contradictory viewpoints, providing a springboard for conversation and debate. Design for Sustainable Change explores how design thinking and design-led entrepreneurship can address the issue of sustainability. It discusses the ways in which design thinking is evolving and being applied to a much wider spectrum of social and environmental issues, beyond its traditional professional territory. The result is designers themselves evolving, and developing greater design mindfulness in relation to what they do and how they do it.

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This book looks at design thinking as a methodology which, by its nature, considers issues of sustainability, but which does not necessarily seek to define itself in those terms. It explores the gradual extension of this methodology into the larger marketplace and the commercial and social implications of such an extension.

The aim of this book is to enable students, educators and designers in the early stages of their careers to learn and practise design in a socially responsible manner. It responds to the rise of academic debate and teaching in the areas of

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social design, sustainable design, ethical design and design futures. *Citizen Designers* is a practically and pedagogically focused book, with each chapter addressing a particular area or issue within design practice and education, with an overview framing essay, interviews with practitioners and educators, and assignment briefs through which the reader can understand the process by which a brief is set, met and critiqued.

The Routledge Handbook of Research Methods for Social-Ecological Systems provides a synthetic guide to the range of methods that can be employed in

social-ecological systems (SES) research. The book is primarily targeted at graduate students, lecturers and researchers working on SES, and has been written in a style that is accessible to readers entering the field from a variety of different disciplinary backgrounds. Each chapter discusses the types of SES questions to which the particular methods are suited and the potential resources and skills required for their implementation, and provides practical examples of the application of the methods. In addition, the book contains a conceptual and practical

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introduction to SES research, a discussion of key gaps and frontiers in SES research methods, and a glossary of key terms in SES research.

Contributions from 97 different authors, situated at SES research hubs in 16 countries around the world, including South Africa, Sweden, Germany and Australia, bring a wealth of expertise and experience to this book. The first book to provide a guide and introduction specifically focused on methods for studying SES, this book will be of great interest to students and scholars of sustainability science, environmental

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management, global environmental change studies and environmental governance. The book will also be of interest to upper-level undergraduates and professionals working at the science–policy interface in the environmental arena.

The Necessary Revolution  
Routledge Handbook of  
Sustainable Design  
Radical Interdependence,  
Autonomy, and the Making of  
Worlds  
Architecture and Design Versus  
Consumerism  
Adversarial Design  
Cunning Intelligence and the  
Politics of Design

## Design Struggles

*The main focus of this book is to help better understand the multidimensionality and complexity of population displacement and the role that reconstruction and recovery knowledge and practice play in this regard. According to the UN Refugee Agency (UNHCR), the total number of people forcibly displaced due to wars and conflicts, disasters, and climate change worldwide, exceeded 66 million in 2016. Many of these displaced populations may never be*



**able to go back and  
rebuild their houses,  
communities, and  
businesses. This text  
brings together recovery  
and reconstruction  
professionals,  
researchers, and policy  
makers to examine how  
displaced populations can  
rebuild their lives in new  
locations and recover from  
disasters that have  
impacted their  
livelihoods, and  
communities. This book  
provides readers with an  
understanding of how  
disaster recovery and  
reconstruction knowledge**

*and practice can contribute to the recovery and reconstruction of displaced and refugee populations. This book will appeal to students, researchers, and professionals working in the field.*

*Creativity in schools is changing, with greater emphasis being placed on creative skills across the curriculum than ever before. This shift has thrown up some challenging questions which this book tackles head-on in order to better understand the implications of this*

*change and the effects on pedagogy and policy. The questions raised include: What is creative learning? How does it relate to creative teaching? How do we organize the curriculum to nurture creativity? What pedagogical strategies support creativity? How is creative learning different to effective learning? What responsibilities do schools have for stimulating creativity in relation to society, ethics and the wider environment? Laying out*

*the key concepts in the current debate on creativity and placing them in a broader context based on practice, policy and research, this volume sets the agenda for future discussion and suggests practical ways to encourage pupils' creative development in a new and more thoughtful way. This edited collection broadens the definition of sustainable real estate based on industry trends, research, and the Paris Climate Agreements. Discussions encompass existing and new buildings*

*throughout their life cycle, the financing of their development and operations, and their impact on the surrounding environments and communities. This broader perspective provides a better understanding of the interconnected nature of the environmental, societal, communal, political, and financial issues affecting sustainable real estate, revealing the wide-ranging impact of practitioners' decisions on the sustainable real estate system. Bringing together*

***carefully selected  
articles from leading  
global academic and  
practitioner experts from  
urban planning, design,  
construction, and finance,  
this collection brings to  
light new opportunities  
and innovative  
transdisciplinary  
solutions to as-yet  
unresolved problems.  
This publication offers a  
critical assessment of the  
complicity of design in  
creating, perpetuating,  
and reinforcing social,  
political, and  
environmental problems,  
both today and in the***

*past. It proposes going against the grain by problematising Western notions of design to foster situated, decolonial, and queer-feminist modes of disciplinary self-critique, and looks at design through the intersections of gender, culture, ethnicity, and class. Applying robust scholarly insight with engaging and accessible modes of conveyance and storytelling, an urgent and expansive array of voices and views emerge from those engaged in*

***struggles with, against,  
or around the field of  
design.***

***Object Cultures in  
Transition***

***Persistent Fools***

***Beyond Efficiency***

***The Philosophy of  
Sustainable Design***

***Design Futuring***

***A Design, Cultural and  
Ecological History***

***How Design Activism  
Confronts Growth***

Design, Ecology, Politics links social and ecological theory to design theory and practice, critiquing the ways in which the design industry perpetuates unsustainable development. Boehnert argues that when design does engage



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with issues of sustainability, this engagement remains shallow, due to the narrow basis of analysis in design education and theory. The situation is made more severe by design cultures which claim to be apolitical. Where design education fails to recognise the historical roots of unsustainable practice, it reproduces old errors. New ecologically informed design methods and tools hold promise only when incorporated into a larger project of political change. *Design, Ecology, Politics* describes how ecological literacy challenges many central assumptions in design theory and practice. By bringing design, ecology and socio-political theory together, Boehnert describes how power is constructed, reproduced and obfuscated by design in ways which often

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cause environmental harms. She uses case studies to illustrate how communication design functions to either conceal or reveal the ecological and social impacts of current modes of production. The transformative potential of design is dependent on deep-reaching analysis of the problems design attempts to address. Ecologically literate and critically engaged design is a practice primed to facilitate the creation of viable, sustainable and just futures. With this approach, designers can make sustainability not only possible, but attractive.

Fashion Ethics provides a comprehensive overview of the ethical issues in the fashion industry, from collection design concept to upcycling and closed loop production. This book

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answers an urgent need for a comprehensive understanding of the fundamental ethics of the fashion industry. Sue Thomas goes beyond the usual contentious issues of environmental impact and human rights, taking the reader deeper into the endemic issues including sizeism, ageism, animal rights, and the lack of diversity in models and in the media. The book lays out the significant ethical issues within the fashion supply chain by mapping the lifecycle of a garment and exploring key topics such as deep ecology, cultural copyright speciesism, the role of the customer, and technology in future ethics. It also features current international industry information and industry-relevant case studies from brands, media and mobile technology,

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and NGOs including Oxfam (UK), Redress (Hong Kong), Nimany (US), Labor Link (US), People Tree (UK), and Peppermint (Australia). Fashion Ethics provides much-needed information for fashion students, industry professionals, and customers.

This is a timely and groundbreaking book from the bestselling author of "The Fifth Discipline" series and "Presence". "The Necessary Revolution" reveals how corporations and organizations are, in the face of looming environmental crises and pressure from social issues, finding solutions that ensure both long-term survival and real-time business success. "The Necessary Revolution" is destined to become the essential handbook for everyone who understands the need to act and work together now to create a

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sustainable world for ourselves and the generations to come. A revolution is underway, and spreading fast.

Organizations everywhere are boldly leading the change from the dead-end of 'business as usual' to new strategies and transformative practices that promote a flourishing, sustainable world. Pragmatic and powerful, today's most innovative leaders know that revolutionary - not incremental - changes in the way we live and work are necessary for their, and our, survival. Brimming with inspiring stories from around the globe, and organizations ranging from Alcoa to Oxfam, DuPont to GE, "The Necessary Revolution" clearly shows that ordinary people at every level within every organization have the ability and innovative spirit to do extraordinary

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things. By working collaboratively across boundaries, they are amplifying their creativity to find unprecedented solutions in an intensely interdependent world. "The Necessary Revolution" contains a wealth of strategies to help anyone, regardless of role or title, build the confidence and competence to respond effectively to the greatest challenge of our time. It is destined to become the essential handbook for everyone who understands the need to act and work together - now - to create a sustainable world for ourselves and the generations to follow.