Design Futuring Sustainability Ethics And New Practice | 04a3e71d9be56d1e06606d00650a5743

Just as the term design has been going through change, growth and expansion of meaning, and interpretation in practice and education – the same can be said for design research. The traditional boundaries of design are dissolving and connections are being established with other fields at an exponential rate. Based on the proceedings from the IASDR 2017 Conference, Re:Research is an edited collection that showcases a curated selection of 83 papers – just over half of the works presented at the conference. With topics ranging from the introduction of design in the primary education sector to designing information for Artificial Intelligence systems, this book collection demonstrates the diverse perspectives of design and design research. Divided into seven thematic volumes, this collection maps out where the field of design research is now.

Two Blind Spots in Design Thinking
Estelle Berger

From the 1980s, design thinking has emerged in companies as a method for practical and creative problem solving, based on designers’ way of thinking, integrated into a rational and iterative model to accompany the process. In companies, design thinking helped valuing creative teamwork, though not necessarily professional designers’ expertise. By pointing out two blind spots in design thinking models, as currently understood and implemented, this paper aims at shedding light on two rarely described traits of designers’ self. The first relies in problem framing, a breaking point that deeply escapes determinism. The second blind spot questions the post project process. We thus seek to portray designers’ singularity, in order to stimulate critical reflection and encourage the opening-up to design culture. Companies and organizations
willing to make the most of designers’ expertise would gain acknowledging their critical heteronomy to foster innovation based on strong and disruptive visions, beyond an out-of-date problem-solving approach to design. Creating Different Modes of Existence: Toward an Ontological Ethics of Design Jamie Brassett This paper will address some design concerns relating to philosopher Étienne Souriau’s work Les différents modes d’existence (2009). This has important bearings upon design because, first, this philosophical attitude thinks of designing not as an act of forming objects with identity and meaning, but rather as a process of delivering things that allow for a multiplicity of creative remodulation of our very existences. Secondly, Souriau unpicks the concept of a being existing as a unified identity and redefines existence as a creative act of nonstop production of a variety of modes of existence. In doing this he not only moves ontological considerations to the fore of philosophical discussions away from epistemological ones, but does so in such a way as to align with attitudes to ethics that relate it to ontology - notably the work of Spinoza. (This places Souriau in a philosophical lineage that leads back, for example, to Nietzsche and Whitehead, and forward [from his era] to Deleuze and Guattari.) In thinking both ontology and ethics together, this paper will introduce a different approach to the ethics of design. Investigating Ideation Flexibility through Incremental to Radical Heuristics Ian Baker, Daniel Sevier, Seda McKilligan, Kathryn W. Jablokow, Shanna R. Daly, Eli M. Silk The concept of design thinking has received increasing attention during recent years, particularly from managers around the world. However, despite being the subject of a vast number of articles and books stating its importance, the effectiveness of this approach is unclear, as the claims about the concept are not grounded on empirical studies or evaluations. In this study, we investigated the perceptions of six design
thinking methods of 21 managers in the agriculture industry as they explored employee- and business-related problems and solutions using these tools in a 6-hour workshop. The results from pre and post-survey responses suggest that the managers agreed on the value design thinking could bring to their own domains and were able to articulate on how they can use them in solving problems. We conclude by proposing directions for research to further explore adaptation of design thinking for the management practice context. Design Research and Innovation Model Using Layered Clusters of Displaced Prototypes - Juan de la Rosa, Stan Ruecker The ability of design to recognize the wicked problems inside complex systems and find possible ways to modify them, has led other disciplines to try to understand the design process and apply it to many areas of knowledge not traditionally associated with design. In additional, design’s creative solutions and ability to innovate have made designers a valuable resource in the contemporary economy. Nevertheless, there is still an unnecessarily constraining polemic about the meaning and model of the process of academic research in the field of design, the ways in which design research should be conducted and the specific knowledge that is produced with the design research process. This paper tries to broaden the discourse by describing the prototype as a basic element of the process of design, since it is connected to a specific type of knowledge and based on the working skills of the designer; it also proposes a model of the use of prototypes as a research tool based on four different theoretical concepts whose importance in the field of design has been strongly established by different academic communities around the world. These are embodied knowledge, displacement, complexity and that we learn about the world through transforming it. Pursuing these models, we develop a process to intentionally produce designerly knowledge of complex
dynamic systems, using layered clusters of displaced prototypes. Solution-Generation Design Profiles: Reflection on “Reflection in Action” - Shoshi Bar-Eli Solution-generation design behavior in general, and “reflection-in-action” in particular, can serve to differentiate designers, recognizing their personal reflecting when designing. In psychology, reflection is found a more robust tool to enhance task performance after feedback from a personal “device” that generates the process itself while interacting with visual representation. Differences among students’ interior design processes appear in their solution-generation design behavior. A “think aloud” experiment identified solution generation behavior profiles. Qualitative and quantitative methodologies showed how design characteristics unite, forming patterns of design behavior. A comprehensive picture of designers’ differences emerged. The research aimed: to identify individual design students’ solution-generation profiles based on design characteristics; to show how reflection-in-action appearing in the profiles can serve to predict how novice designers learn and act when solving a design problem; to enhance the uniqueness of reflection-in-action for designers as distinct from reflection in other fields. Four distinct solution-generation profiles emerged, each showing a different type of reflective acts. Identifying reflection-in-action type can robustly predict how designers develop design solutions and help develop pedagogical concepts, strategies and tools. Let’s Get Divorced: Pragmatic and Critical Constructive Design Research Jodi Forlizzi, Ilpo Koskinen, Paul Hekkert, John Zimmerman Over the last two decades, constructive design research (CDR) – also known as Research through Design – has become an accepted mode of scholarly inquiry within the design research community. CDR is a broad term encompassing almost any kind of research that uses design action as a mode of inquiry. It has been described as having three
distinct genres: lab, field and showroom. The lab and field genres typically take a pragmatic stance, making things as a way of investigating what preferred futures might be. In contrast, research done following the showroom approach (more commonly known as critical design [CD], speculative design or design fictions) offers a polemic and sometimes also a critique of the current state embodied in an artifact. Recently, we have observed a growing conflict within the design research community between pragmatic and critical researchers. To help reduce this conflict, we call for a divorce between CD and pragmatic CDR. We clarify how CDR and CD exist along a continuum. We conclude with suggestions for the design research community, about how each unique research approach can be used singly or in combination and how they can push the boundaries of academic design research in new collaboration with different disciplines. Critical and Speculative Design Practice and Semiotics: Meaning-Crafting for Futures Ready Brands - Malex Salamanques This article concerns the use of critical design practices within the context of commercial semiotics, arguing that incorporating practices from a critical design approach is valuable for client brands, but also an important means with which to incite brands to consider more deeply their role in shaping the future. As an alternative to the oppositional approach frequently taken by critical design practitioners, working through design practices collaboratively alongside client brands creates potential for the radical changes sought by many of the movement’s vanguard. A case study of recent work with a corporate client demonstrates the practical effects of using critical design practice within a commercial setting, proving the complementarity between critical design practice and commercial semiotics - where the confluence of the thinking brought new value to improve product design for example - and points to the value of using current leading edge thinking within the design
Beyond Forecasting: A Design-Inspired Foresight Approach for Preferable Futures
- Jorn Buhring, Ilpo Koskinen

This paper engages with the literature to present different perspectives between forecasting and foresight in strategic design, while drawing insights derived from futures studies that can be applied in form of a design-inspired foresight approach for designers and interdisciplinary innovation teams increasingly called upon to help envisage preferable futures. Demonstrating this process in applied research, relevant examples are drawn from a 2016 Financial Services industry futures study to the year 2030. While the financial services industry exemplifies an ideal case for design-inspired foresight, the aims of this paper are primarily to establish the peculiarities between traditional forecasting applications and a design-inspired foresight visioning approach as strategic design activities for selecting preferable futures. Underlining the contribution of this paper is the value of design futures thinking as a creative and divergent thought process, which has the potential to respond to the much broader organizational reforms needed to sustain in today’s rapidly evolving business environment.

Developing DIVE, a Design-Led Futures Technique for SMEs
- Ricardo Mejia Sarmiento, Gert Pasman, Erik Jan Hultink, Pieter Jan Stappers

Futures techniques have long been used in large enterprises as designerly means to explore the future and guide innovation. In the automotive industry, for instance, the development of concept cars is a technique which has repeatedly proven its value. However, while big companies have broadly embraced futures techniques, small- and medium-sized enterprises (SMEs) have lagged behind in applying them, largely because they are too resource-intensive and poorly suited to the SMEs’ needs and idiosyncrasies. To address this issue, we developed DIVE: Design, Innovation, Vision, and Exploration, a design-led futures technique for SMEs. Its
development began with an inquiry into concept cars in the automotive industry and concept products and services in other industries. We then combined the insights derived from these design practices with elements of the existing techniques of critical design and design fiction into the creation of DIVE’s preliminary first version, which was then applied and evaluated in two iterations with SMEs, resulting in DIVE’s alpha version. After both iterations in context, it seems that DIVE suits the SMEs because of its compact and inexpensive activities which emphasize making and storytelling. Although the results of these activities might be less flashy than concept cars, these simple prototypes and videos help SMEs internalize and share a clear image of a preferable future, commonly known as vision. Developing DIVE thus helped us explore how design can support SMEs in envisioning the future in the context of innovation.

Mapping for Mindsets of Possibility During Home Downsizing Lisa Otto

How can design orient people to an expanded sense of future possibility? Design researchers are beginning to recognize design’s potential role not solely in producing products, services and strategies but, instead, in shifting mindsets and behaviors. This shift requires a different view of the design practice, from engaging users to gather insights to be implemented, to that process as the actual material of the design. Borrowing from the framework of practice-oriented design, a first step in these processes is expanding participants’ understanding of future possibilities. In opening future possibilities, one recognizes an expanded range of futures and, ideally, engages in dialog with other people and their range of possibilities. This paper introduces mapping activities that are intended to reframe participants’ perception of possible futures. This study conducted pilot workshops with participants who were downsizing their home and struggling with decisions about their things and spaces. This paper argues that working with
people already engaged in life transitions such as downsizing presents a rich opportunity for these futuring [sic] methods, as they are already beginning to grapple with designing for possible futures. These methods provide a stake in the ground for future exploration of potential methods to engender mindsets of possibility and engage in trialing methods like living labs. Storytelling Technique for Building Use-Case Scenarios for Design Development Sukwoo Jang, Ki-young Nam Numerous studies have dealt with what kind of value narrative can have for creating a more effective design process. However, there is lack of consideration of storytelling techniques on a stage-by-stage level, where each stage of storytelling technique can draw attention to detailed content for creating use-case scenarios for design development. This research aims to identify the potential implications for design development by using storytelling techniques. For the empirical research, two types of workshops were conducted in order to select the most appropriate storytelling technique for building use-case scenarios, and to determine the relationship between the two methods. Afterwards, co-occurrence analysis was conducted to examine how each step of storytelling technique can help designers develop an enriched content of use-case scenario. Subsequently, the major findings of this research are further discussed, dealing with how each of the storytelling technique steps can help designers to incorporate important issues when building use-case scenarios for design development. These issues are: alternative and competitor’s solution which can aid designers to create better design features; status quo bias of user which can help the designer investigate the occurring reason of the issue; and finally, social/political values of user which have the potential of guiding designers to create strengthened user experience. The results of this research help designers and design researchers concentrate on crucial factors such as the
alternative or competitor’s solution, the status quo bias of user, and social/political values of
the user when dealing with issues of building use-case scenarios. Group Storymaking:
Understanding an Unfamiliar Target Group through Participatory Storytelling
Hankyung Kim, Soonju Lee, Youn-kyung Lim
Based on a sound research plan, qualitative user data help
designers understand needs, behaviors and frustrations of a target user group. However, when
a design team attempts to design for unfamiliar target groups, it is extremely difficult to
accurately observe and understand them by simply using traditional research methods such as
interviews and observation. As a result, the quality of user research data can be called into a
question, which leads to unsatisfying design solutions. Inspired by a fiction writer’s technique
of generating stories together with readers, we present the new method, Group Storymaking
that supports designers to quickly gain broad and clear understanding of an unfamiliar target
group throughout a story-making activity with actual users. We envision Group Storymaking as
a new user study method that designers can easily implement to learn about an unfamiliar
target, involving actual users in a research process with less time and cost commitment.
Animation as a Creative Tool: Insights into the Complex
Ian Balmain Hewitt, David A. Parkinson, Kevin H. Hilton
A Design for Service (DfS) approach has been linked with impacts
that significantly alter touchpoints, services and organizational culture. However, there is no
model with which to assess the extent to which these impacts can be considered
transformational. In the absence of such a model, the authors have reviewed literature on
subjects including the transformational potential of design; characteristics of transformational
design; transformational change; and organizational change. From this review, six indicators of
transformational change in design projects have been identified: evidence of nontraditional
transformative design objects; evidence of a new perspective; evidence of a community of advocates; evidence of design capability; evidence of new power dynamics; and evidence of new organizational standards. These indicators, along with an assessment scale, have been used to successfully review the findings from a doctoral study exploring the impact of the DfS approach in Voluntary Community Sector (VCS) organizations. This paper presents this model as a first-step to establishing a method to helpfully gauge the extent of transformational impact in design projects.


Transdisciplinary Knowledge Production in Architecture and Urbanism 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 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 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.

Sustainable Real Estate This book represents a major milestone in the endeavour to understand how communication is impacting on the fashion industry and on societal fashion-related practices and values in the digital age. It presents the proceedings of FACTUM 19, the first in a series of fashion communication conferences that highlights important theoretical and empirical work in the field. Beyond documenting the latest scientific insights, the book is intended to foster the sharing of methodological approaches, expand the dialogue between communications’ studies and fashion-related disciplines, help establish an international and interdisciplinary network of scholars, and offer encouragement and fresh ideas to junior researchers. It is of high value to academics and students in the fields of fashion.
communication, fashion marketing, visual studies in fashion, digital transformation of the fashion industry, and the cultural heritage dimension of fashion. In addition, it is a key resource for professionals seeking sound research on fashion communication and marketing.

Product-Service System Design for Sustainability Design as Future-Making brings together leading international designers, scholars, and critics to address ways in which design is shaping the future. The contributors share an understanding of design as a practice that, with its focus on innovation and newness, is a natural ally of futurity. Ultimately, the choices made by designers are understood here as choices about the kind of world we want to live in. Design as Future-Making locates design in a space of creative and critical reflection, examining the expanding nature of practice in fields such as biomedicine, sustainability, digital crafting, fashion, architecture, urbanism, and design activism. The authors contextualize design and its affects within issues of social justice, environmental health, political agency, education, and the right to pleasure and play. Collectively, they make the case that, as an integrated mode of thought and action, design is intrinsically social and deeply political.

Sustainable Thinking

Design as Future-Making Sustainable Futures in the Built Environment provides an insight on both construction and development issues and examine how we can transition to a sustainable future by 2050 bringing together leading research and practice at building, neighbourhood and city levels. Coverage includes the 'hard end' of the built environment (across the scales of
buildings, communities and cities), and the 'softer' end in terms of how professional practice will need to adapt to these trends. Invaluable source for researchers and postgraduate students as well as built environment professionals.

Sustainable Design in Textiles and Fashion This book showcases over 60 cutting-edge research papers from the 5th International Conference on Research into Design – the largest in India in this area – written by eminent researchers from across the world on design process, technologies, methods and tools, and their impact on innovation, for supporting design across boundaries. The special features of the book are the variety of insights into the product and system innovation process, and the host of methods and tools from all major areas of design research for the enhancement of the innovation process. The main benefit of the book for researchers in various areas of design and innovation are access to the latest quality research in this area, with the largest collection of research from India. For practitioners and educators, it is exposure to an empirically validated suite of theories, models, methods and tools that can be taught and practiced for design-led innovation.

ICoRD’15 – Research into Design Across Boundaries Volume 2 This volume is a technical and operative contribution to the United Nations "Decade on Education for Sustainable Development" (2005-2014), aiding the development of a new generation of designers, responsible and able in the task of designing environmentally sustainable products. The book provides a comprehensive framework and a practical tool to support the design process. This is an important text for those interested in the product development processes.
Right Research 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 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, 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 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, 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.

Design for Business: Volume 2 Sustainable Thinking explores how values and sustainability can reshape the way design management is practised and applied. The book discusses how
designers can combine innovative creative thinking with analytical problem-solving skills to produce outputs that are business ready and ethically driven. Examples from a wide range of practitioners who work within the field of sustainable design are examined through case studies, and engaging activities suggest ways for students and practitioners to explore introducing sustainable thinking into their work.


zunehmenden Nachhaltigkeitskommunikation ebenso veranschaulicht wie der steigende Druck zur radikalen Innovation.

Design for Sustainable Change The value of design for contributing to environmental solutions and a sustainable future is increasingly recognised. It spans many spheres of everyday life, and the ethical dimension of design practice that considers environmental, social and economic sustainability is compelling. Approaches to design recognise design as a practice that can transform human experience and understanding, expanding its role beyond stylistic enhancement. The traditional roles of design, designer and designed object are therefore redefined through new understanding of the relationship between the material and immaterial aspects of design where the design product and the design process are embodiments of ideas, values and beliefs. This multi-disciplinary approach considers how to create design which is at once aesthetically pleasing and also ethically considered, with contributions from fields as diverse as architecture, fashion, urban design and philosophy. The authors also address how to teach design based subjects while instilling a desire in the student to develop ethical work practices, both inside and outside the studio.

Routledge Handbook of Sustainable Design A critical overview of contemporary design and its place within the broader context of art history A Companion to Contemporary Design since 1945 introduces readers to a collection of specially commissioned essays exploring the complex areas of design that emerged through the latter half of the twentieth century, design history, design methods, design studies and more recently, design thinking. The book delivers
a thoughtful overview of all design disciplines and also strives to stimulate inter-disciplinary debate and examine unconsidered convergences among design applications in different fields. By offering a new perspective on design, the articles assembled here present a challenging account of the boundaries between design history and its cognate disciplines, especially art history. The volume comprises five sections—Time, Place, Space, Objects and Audiences—that discuss environments for design and how we interact with designed objects and spaces. Notable features include: 24 new essays reflecting the current state of design history and theory, and examining developments on a global basis Contributions by eminent scholars and practitioners from around the globe Enriched throughout with illustrations A Companion to Contemporary Design since 1945 provides a new and thought-provoking revision of our conception and understanding of contemporary design that will be essential reading for students at both undergraduate and graduate levels as well as researchers and teachers working in design history, theory and practice, and in related fields.

Design for a Sustainable Culture The volume addresses the hybridisation of knowledge production in space-related research. In contrast with interdisciplinary knowledge, which is primarily located in scholarly environments, transdisciplinary knowledge production entails a fusion of academic and non-academic knowledge, theory and practice, discipline and profession. Architecture (and urbanism), operating as both a discipline and a profession, seems to form a particularly receptive ground for transdisciplinary research. However, this specificity has not yet been developed into a full-fledged, unique mode of knowledge production. In order to dedicate specific attention to transdisciplinary knowledge production,
this book aims to explore (new) hybrid modes of inquiry that allow many of architecture’s longstanding schisms to be overcome: such as between theory/history and practice, critical theory and projective design, the adoption of an external viewpoint and a view-from-within (often under the guise of bottom-up vs. top-down). It therefore offers the reader a mix of contributions that elaborate on knowledge production that is situated in the (architectural and urban) profession or practice, and on practice-based approaches in theory.

Zwischenmenschliches Design This book introduces the idea of sustainability and its aesthetic dimension, suggesting that the role of the aesthetic is an active one in developing an ecologically, economically and culturally healthy society. With an introduction by Christopher Crouch and an afterword by John Thackara, the book gathers together a range of essays that address the issue of the aesthetics of sustainability from a multitude of disciplinary and cultural perspectives.

Form, Funktion und Freiheit The book is current and interdisciplinary, engaging with recent developments around this topic and including perspectives from sciences, arts, and humanities. It will be a welcome contribution to studies of the Anthropocene as well as studies of research methods and practices. — Sam Mickey, University of S. Francisco Educational institutions play an instrumental role in social and political change, and are responsible for the environmental and social ethics of their institutional practices. The essays in this volume critically examine scholarly research practices in the age of the Anthropocene, and ask what accountability educators and researchers have in ‘righting’ their relationship to the
environment. The volume further calls attention to the geographical, financial, legal and political barriers that might limit scholarly dialogue by excluding researchers from participating in traditional modes of scholarly conversation. As such, Right Research is a bold invitation to the academic community to rigorous self-reflection on what their research looks like, how it is conducted, and how it might be developed so as to increase accessibility and sustainability, and decrease carbon footprint. The volume follows a three-part structure that bridges conceptual and practical concerns: the first section challenges our assumptions about how sustainability is defined, measured and practiced; the second section showcases artist-researchers whose work engages with the impact of humans on our environment; while the third section investigates how academic spaces can model eco-conscious behaviour. This timely volume responds to an increased demand for environmentally sustainable research, and is outstanding not only in its interdisciplinarity, but its embrace of non-traditional formats, spanning academic articles, creative acts, personal reflections and dialogues. Right Research will be a valuable resource for educators and researchers interested in developing and hybridizing their scholarly communication formats in the face of the current climate crisis.

Wie Design wirkt


Philosophical Frameworks and Design Processes Over the last decade, socially responsible investments (SRIs) have become paramount to both professionals and academics. In the aftermath of the financial crisis of 2007-8, practitioners have become much more involved in new financial models that integrate returns and positive social and environmental impacts. The authors argue that previous irresponsible financial models are anachronistic, and propose a new relationship between stakeholder and shareholder. Starting from the mainstreaming of SRI, this book recovers the social function of banks and the innovative role of crowdfunding and venture capital models. The book offers a unified perspective for firm and funder, making it a timely and invaluable read for scholars and practitioners interested in sustainable development and social impact finance.
Die geistesgeschichtliche Lage des heutigen Parlamentarismus As a cultivated form of invention, product design is a deeply human phenomenon that enables us to shape, modify and alter the world around us – for better or worse. The recent emergence of the sustainability imperative in product design compels us to recalibrate the parameters of good design in an unsustainable age. 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, critical propositions, practical examples and rich theoretical analyses, this book provides an essential point of reference for scholars and practitioners at the intersection of product design and sustainability. The book takes readers to the depth of our engagements with the designed world to advance the social and ecological purpose of product design as a critical twenty-first-century practice. Comprising 35 chapters across 6 thematic parts, the book’s contributors include the most significant international thinkers in this dynamic and evolving field.

Design for Environmental Sustainability As culture is becoming increasingly recognised as a crucial element of sustainable development, design competence has emerged as a useful tool in creating a meaningful life within a sustainable mental, cultural and physical environment. Design for a Sustainable Culture explores the relationship between sustainability, culture and the shaping of human surroundings by examining the significance and potential of design as a tool for the creation of sustainable development. Drawing on interdisciplinary case studies and investigations from Europe, North America and India, this book discusses theoretical, methodological and educational aspects of the role of design in relation to human well-being.
and provides a unique perspective on the interface between design, culture and sustainability. This book will appeal to researchers as well as postgraduate and undergraduate students in design and design literacy, crafts, architecture and environmental planning, but also scholars of sustainability from other disciplines who wish to understand the role and impact of design and culture in sustainable development.

Cross-Cultural Design. User Experience of Products, Services, and Intelligent Environments

Drone Futures Contemporary architects are under increasing pressure to offer a sustainable future. But with all the focus on green building there has been little investigation into the meaningful connections between architectural design, ecological systems, and environmentalism. A new generation of architects, landscape architects, designers, and engineers aims to recalibrate what humans do in the world according to how the world works as a biophysical system. Design in this sense is a larger concept having to do as much with politics and ethics as with aesthetics and technology. This recasting of the green movement for the twenty-first century transforms design into a positive agent balancing societal values with environmental needs. Design Ecologies is a ground-breaking collection of never-before-published essays and case studies by today's most innovative designers and critics. Their design strategies—social, material, and biological—run the gamut from the intuitive to the highly technological. One essay likens window-unit air conditioners in New York City to weeds in order to spearhead the development of potential design solutions. Latz + Partner's Landscape Park integrates vegetation and industry in an urban park built amongst the monumental ruins.
of a former steelworks in Duisburg Nord, Germany. The engineering firm Arup presents its thirty-three-square-mile masterplan for Dongtan Eco City, an energy-independent city that China hopes will house half a million people by 2050. An essay by designer Bruce Mau leads off a stellar list of emerging designers, including Jane Amidon, Blaine Brownell, David Gissen, Gross.Max, Robert Sumrell and Kazys Varnelis, Stephen Kieran and James Timberlake, R&Sie(n), Studio 804, and WORKac.

Environment, Ethics and Cultures This book argues that interior architects have a responsibility to practice their profession in collaborative ways that address the needs of communities and to be the agents of social justice and cultural heritage. The book is divided into three sections, based on three pivotal themes — community engagement, social justice and cultural heritage. Each section has chapters that put forward the principles of these themes, leading into a variety of fascinating case studies that illustrate how socially sustainable design is implemented in diverse communities across the world. The second section includes four concise case studies of community housing issues, including remote-area indigenous housing and housing for the homeless. The third section offers two extensively researched essays on design and cultural heritage — a case study of the development of a redundant industrial site and a historical study of gendered domestic interiors. The book appeals to a wider audience than the design community alone and challenges mainstream interior design/architecture practitioners nationally and internationally to take a leading role in the field of socially responsible design. The issues raised by the authors are relevant for individuals, communities, government and non-government organisations, professionals and students. “In
the twenty-first century we seem to have entered into a new world of knowledge discovery, where many of the most exciting insights come not from the authority of a traditional discipline, but from the dialogue that happens at the hubs and intersections of thought — the arenas where different disciplines and approaches, different schools and habits of thinking, come together to collaborate and contend. This collection is a good example of this, and I hope the book will be widely read and its lessons learned and applied.” Tim Costello, Officer of the Order of Australia, Chief Executive, World Vision Australia.

Design and Ethics "This collection engages environmental, ethical and cultural values perspectives to show how Design and Technology (D&T) Education actively contributes to the significant educational goal of attaining sustainable global futures. An international collection of authors representing all levels of education articulate how D&T research, curriculum theory, policy, and classroom practices can synergise to contribute positively to the education of children for sustainable global futures. The book offers a spectrum of theorised curriculum positions, political and policy analysis, and case studies of successful school practice. A key word in the title is that of contribution which is construed in several senses: first, of D&T as a vehicle for understanding the range of political and social values that arise with such a major educational challenge; second, of D&T as an agent of critical and practical action for students as global citizens; third, by taking global and multiple perspectives (rather than, say, Western or mono-cultural positions); and, fourth, by demonstrating D&T’s capacities for working in holistic and integrative cross-curricular ways. The authors show how students can not only learn about their potential as humans-as-designers but can also develop designerly capacities
that enable them to contribute meaningfully in practical ways to their communities and to wider society, that is, as global citizens who can apply design capability in ethical ways that are respectful of peoples, cultures and environments alike."

Die notwendige Revolution "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 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.

Designing Fashion's Future 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. 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.

Sustainable Futures in the Built Environment to 2050 Exploring the important role of education in both pursuing and implementing sustainable development, this timely Handbook highlights how teaching methods at schools and universities can impact the future. It looks at ways not only to inform students about matters related to sustainable development, but also to empower them to adopt behaviours and actions that lead to more sustainable lifestyles.

Fashion Communication in the Digital Age Dieses Open Access-Buch analysiert veränderte Grundkoordinaten der Hochschulbildung weltweit und stellt die Frage, wie Hochschulbildung sich entwickeln muss, um in einer Welt globaler Herausforderungen, sich immer schneller wandelnden gesellschaftlichen Umbrüchen und innovationsgetriebenen, agilen Arbeitsfeldern bestehen können. Mit der NextSkills-Studie wird über ein qualitativ-quantitatives Multimethodendesign erstmals ein ganzheitliches bildungswissenschaftlich fundiertes Future Skills Konzept konstruiert und validiert. Future Skills und das ihnen zugrunde liegende Triple
Helix Model zukünftiger Handlungsfähigkeit werden im Detail beschrieben. Das Buch führt die Diskussionsstränge um die Zukunft der Hochschule zusammen. Es beschreibt die 10 Sekunden zukünftiger Hochschulentwicklung und entwickelt vier Szenarien für die Hochschule der Zukunft.

Gerechte Freiheit Freedom is compelling in design; it has to be acknowledged, accepted, and comprehended in all its existential complexity to better understand and engage the intricate ethical domain of design practice. The book addresses that issue by thoroughly examining design ethics, and design in general, within an existentialist philosophical framework. Its inquiry reveals a puzzling and unsettling reality of design ethics, and hence what constitutes an ethical design practice where there is no exit for designers but complete acceptance of their freedom and responsibility. This book makes a unique, original, and invaluable contribution to the design literature and design ethics scholarship. Scholars, professors, students, and professionals in all design disciplines, as well as any person involved in arts, humanities, philosophy, social sciences, and engineering, will find philosophical insights that will challenge design thinking and inspire them to rethink design ethics as an agency of human existence making instead of code compliance. Making a case for existentialist design ethics, this book lays the ground for a radical transformation of how we conceive design, ethics in design practice, and the role of designers in the world.

Perspectives on Social Sustainability and Interior Architecture This book, based on a huge European and Asian research project, is a state-of-the-art examination of the theory and
practice of system innovation through Product-Service System (PSS) design for sustainability from a trans-cultural viewpoint. PSS design incorporates innovative strategies that shift businesses away from simply designing and selling physical products to developing integrated systems of products and services that satisfy human needs. The book provides background, advice and tools for designers interested in sustainable PSSs and has a wealth of case studies for practitioners to digest.

Design Ecologies 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.

The Handbook of Design for Sustainability This book highlights the Eco-design or Sustainable design in textiles and fashion, aimed at reducing their environmental impact throughout their life cycle. Sustainable design is one of the core elements practiced in various industrial
sectors. The textiles and fashion sector, is also creating a huge environmental brunt in terms of various fibres, processes, consumption of various resources including dyes, chemicals and auxiliaries, etc. Thus, sustainable design is the key to reduce the environmental impacts made out of textiles and fashion products. This book includes seven informative chapters to decipher the concept and applications of sustainable design in textiles and fashion.

Handbook on Teaching and Learning for Sustainable Development, Drone Futures explores new paradigms in Unmanned Aircraft Systems (UAS) in landscape and urban design. UAS or drones can be deployed with direct application to the built environment; this book explores the myriad of contemporary and future possibilities of the design medium, its aesthetic, mapping agency, AI, mobility and contribution to smart cities. Drones present innovative possibilities, operating in a ‘hover space’ between human scales of landscape observation and light aircraft providing a unique resolution of space. This book shows how UAS can be utilised to provide new perspectives on spatial layout, landscape and urban conditions, data capture for construction monitoring and simulation of design proposals. Author Paul Cureton examines both the philosophical use of these tools and practical steps for implementation by designers. Illustrated in full colour throughout, Drone Futures discusses UAS and their connectivity to other design technologies and processes, including mapping and photogrammetry, AR/VR, drone AI and drones for construction and fabrication, new mobilities, smart cities and city information models (CIMs). It is specifically geared towards professionals seeking to understand UAS applications and future development and students seeking an understanding of the role of drones and airspace in the built environment and its powerful geographic
imaginary. With international contributions, multidisciplinary sources and case studies, Drone Futures examines new powers of flight for visualising, interpreting and presenting landscapes and urban spaces of tomorrow.

An Introduction to Sustainability and Aesthetics How do fashion designers design? How does design function within the industry? How can design practices open up sustainable pathways for fashion's future? Designing Fashion's Future responds to these questions to offer a fresh understanding of design practices within the sprawling, shifting fashion system. Fashion design is typically viewed as the rarefied practice of elite professionals, or else as a single stage within the apparel value chain. Alice Payne shows how design needn't be reduced to a set of decisions by a designer or design team, but can instead be examined as a process, object, or agent that shapes fashion's material and symbolic worlds. Designing Fashion's Future draws on more than 50 interviews with industry professionals based in Australia, Asia, North America, Europe, and the United Kingdom. These diverse perspectives from multinational retailers, independent and experimental contexts ground the discussion in contemporary industry practices.

Design Futuring The topics in this book range from branding and sustainability to business-driven design education. The book will include Per Mollerup's essay on the importance of simplicity in. Mollerup is a distinguished Scandinavian designer, Professor, and author of numerous design books, including the best-seller, "Marks of Excellence: The History and Taxonomy of Trademarks" (1997 / 2013) which has sold over 40,000 copies worldwide. In
addition to this, we will include transcripts of two interviews with Quan Payne, the former Global Art Director for Nike for the London Olympics and Director for Digital Sports Initiative of Nike+ as well as a paper by Gjoko Muratovski on Nike’s design and marketing strategies for the 2012 London Olympics. The book will also feature a transcript of an interview with Dan Formosa, a New York-based design consultant and design researcher and founding member of the iconic Smart Design studio. Den is an award-winning designer with a list of clients such as Ford, HP, Johnson & Johnson, LG Electronics, and Microsoft. There are number of other works that will are included in this volume, such as Stuart Gluth’s essay on the importance of a research-led design practice in typography; Julian Major’s, Aoi Tanaka’s and Jenni Romaniuk’s paper on colour and brand identity; Emily Wright’s paper on packaging design testing methods; Robert Crocker’s study of greenwashing, sustainability, and communication design; Nina Terrey’s case study on organisational management by design; Gerda Gemser’s, Giulia Calabretta’s, Nachoem Wijnberg’s and Paul Hekkert’s paper on strategic decision-making in new product development; Jan Jervis’s and Jeffrey Brand’s research on how Australian businesses are hiring designers; and Elaine Saunders’s, Jessica Taft’s and David Jenkinson’s exciting case study on the design partnership between the hearing aid company BHS and the design studio Designworks that have revolutionised this healthcare sector."