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solving problems  
in the field

Microscale  
through the

Robotic  
Systems  
latest  
technologies and  
formulations

And Nano

Technologies  
This book  
discusses the  
most significant  
ways in which  
design has been

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applied to  
sustainability  
challenges using  
an evolutionary  
perspective. It  
puts forward an  
innovation  
framework that  
is capable of  
coherently  
integrating  
multiple design  
for  
sustainability



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(DfS) approaches developed so far. It is now widely

understood that design can and must play a crucial role in the societal transformations towards

sustainability. Design can in fact act as a

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catalyst to  
trigger and  
support  
innovation, and  
can help to  
shape the world  
at different  
levels: from  
materials to  
products,  
product-service  
systems, social  
organisations  
and socio-

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technical

systems. This  
book offers a  
unique

perspective on

how DFS has  
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past decades

across these

innovation  
levels, and

provides

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promising and

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botics necessary future  
development  
directions. For  
design scholars,  
this book will  
trigger and feed  
the academic  
debate on the  
evolution of DfS  
and its next  
research

frontiers. For  
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botics can be used as a supporting tool to design courses and programmes on DfS. For bachelor's and master's level design, engineering and management students, the book can be a general resource

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to provide an understanding of the historical evolution of DfS. For design practitioners and businesses, the book offers a rich set of practical examples, design methods and tools to apply the various DfS

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approaches in practice, and an innovation framework which can be used as a tool to support change in organisations that aim to integrate DFS in their strategy and processes.

This book

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discusses the most significant ways in which design has been applied to sustainability challenges using an evolutionary perspective. It puts forward an innovation framework that is capable of coherently



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product-service systems, social organisations and socio-technical systems. This book offers a unique perspective on how DFS has evolved in the past decades across these innovation

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levels, and provides insights on its promising and necessary future development directions. For design scholars, this book will trigger and feed the academic debate on the evolution of DfS and its next

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examples, design methods and tools to apply the various DfS approaches in practice, and an innovation framework which can be used as a tool to support change in organisations that aim to integrate DfS in

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botics strategy  
and processes.

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Investigation on  
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nanomaterials  
has provided new  
insights into  
the rapidly  
advancing fields  
of the  
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showing how these nanomaterials are effective in biomedicine and environmental remediation. These particles hold tremendous prospective applications, and are likely to become the next generation

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multi-scale  
modeling methods  
of MEMS  
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crystals, and  
wafers, also  
covering  
micromachining  
technologies in  
MEMS and  
encapsulation of  
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provides vital  
packaging  
technologies and  
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silicon direct bonding, anodic bonding, glass frit bonding, and related techniques, shows how to protect devices from the environment, and provides tactics to decrease package size for a dramatic

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decrease package  
size for a  
dramatic

reduction in  
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preparation, and  
growth of  
silicon crystals  
and wafers

Explains the  
many properties

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(mechanical, electrostatic, optical, etc.), manufacturing, processing, measuring (including focused beam techniques), and multiscale modeling methods of MEMS structures Geared towards

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practical  
applications  
rather than  
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(CSP) systems,  
their varying  
components, and  
the modeling and  
optimization of  
solar receivers.  
The book  
combines the  
detailed theory  
of receivers,  
all physical  
concepts in the  
process of



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converting solar radiation into electricity in CSP systems, and the main components of CSP systems, including solar concentrators, thermal receivers and power blocks.

Main properties and working

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principles are addressed, along with the principles of solar resources and energy output of CSP systems and solar radiation. By covering different types and designs of solar receivers, heat transfer

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fluids,  
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temperatures,  
and different  
techniques used  
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research and  
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