

Concept Design And Analysis Of Membrane Structures

Design thinking is a powerful process that facilitates understanding and framing of problems,

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enables creative solutions, and may provide fresh perspectives on our physical and social landscapes. Not just for architects or product developers, design thinking can be applied across many disciplines to solve real-world problems and reconcile dilemmas. It is a tool

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that may trigger inspiration and the imagination, and lead to innovative ideas that are responsive to the needs and issues of stakeholders. Design Thinking: A Guide to Creative Problem Solving for Everyone will assist in addressing a full spectrum of challenges from the

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most vexing to the everyday. It renders accessible the creative problem-solving abilities that we all possess by providing a dynamic framework and practical tools for thinking imaginatively and critically. Every aspect of design thinking is explained and analyzed together

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with insights on navigating through the process. Application of design thinking to help solve myriad problems that are not typically associated with design is illuminated through vignettes drawn from such diverse realms as politics and society, business, health and science, law, and

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writing. A combination of theory and application makes this volume immediately useful and personally relevant.

Process Intensification is a comprehensive textbook and treats the theory of process intensification design, and all innovation steps from idea generation to

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commercial
implementation, and
all focused on
contributing to the UN
Sustainable
Development Goals.
This book covers the
' hard ' elements of
design, modelling, and
experimental
validations and the
' soft ' elements,
values of engineers,

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interests of
stakeholders and beliefs
of society.

This handbook is a
companion to NPR
7120.5E, NASA Space
Flight Program and
Project Management
Requirements and
supports the
implementation of the
requirements by which
NASA formulates and

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implements space flight programs and projects. Its focus is on what the program or project manager needs to know to accomplish the mission, but it also contains guidance that enhances the understanding of the high-level procedural requirements. (See Appendix C for NPR

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7120.5E requirements with rationale.) As such, it starts with the same basic concepts but provides context, rationale, guidance, and a greater depth of detail for the fundamental principles of program and project management. This handbook also explores some of the

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nuances and implications of applying the procedural requirements, for example, how the Agency Baseline Commitment agreement evolves over time as a program or project moves through its life cycle.

Presented at 2005

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ASME International
Mechanical
Engineering Congress
and Exposition :
November 5-11, 2005,
Orlando, Florida, USA
Proceedings of the
ASME Computers and
Information in
Engineering
Division--2005
An Introduction to the
Philosophy of

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Technology for Non-
philosophers
National Union
Catalog
A Guide to Building
Information Modeling
for Owners, Managers,
Designers, Engineers
and Contractors
Proceedings of
AIMTDR 2018
This volume

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concept-design-and-ysis-of-membrane-structures

comprises
select
proceedings of
the 7th
International
and 28th All
India
Manufacturing
Technology,
Design and
Research
conference

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2018 (AIMTDR
2018). The
papers in this
volume discuss
simulations
based on
techniques
such as finite
element method
(FEM) as well
as soft
computing

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based
techniques
such as
artificial
neural network
(ANN), their
optimization
and the
development
and design of
mechanical
products. This

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volume will be
of interest to
researchers,
policy makers,
and practicing
engineers
alike.

Product and
Process
Design:
Driving
Innovation is

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a
comprehensive
textbook for
students and
industrial
professionals.
It treats the
combined
design of
innovative
products and
their

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innovative
manufacturing
processes,
providing
specific
methods for
BSc, MSc,
PDEng and PhD
courses.
Students,
industrial
innovators and

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managers are
guided through
all design
steps in all
innovation
stages
(discovery,
concept,
feasibility,
development,
detailed
engineering,

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and implementation) to successfully obtain novel products and their novel processes. The authors' decades of innovation experience in industry, as

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well as in
teaching BSc,
MSc, and post-
academic
product and
process design
courses,
thereby
including the
latest design
publications,
culminate in

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this book.
Excerpts from
and citations
to reviews of
more than
8,000 books
each year,
drawn from
coverage of
109
publications.
Book Review

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Digest
provides
citations to
and excerpts
of reviews of
current
juvenile and
adult fiction
and nonfiction
in the English
language.

Reviews of the

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following
types of books
are excluded:
government
publications,
textbooks, and
technical
books in the
sciences and
law. Reviews
of books on
science for

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the general
reader,
however, are
included. The
reviews
originate in a
group of
selected
periodicals in
the
humanities,
social

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sciences, and
general
science
published in
the United
States,
Canada, and
Great Britain.
- Publisher.
Integrating
embedded
training into

Page 27/164

acquisition
documentation
A Guide to the
Research
Process in Art
and Design
Cumulative
Index,
1976-1980
Process Intens
ification
A Guide to

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Building
Information
Modeling for
Owners,
Designers,
Engineers,
Contractors,
and Facility
Managers
A Guide to
Creative
Problem

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Solving for
Everyone
How to design for
optimum
maintenance
capabilities and
minimize the
repair time Design
for Maintainability
offers engineers a
wide range of
tools and

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techniques for incorporating maintainability into the design process for complex systems. With contributions from noted experts on the topic, the book explains how to design for optimum

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maintenance capabilities while simultaneously minimizing the time to repair equipment. The book contains a wealth of examples and the most up-to-date maintainability design practices that have proven

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to result in better system readiness, shorter downtimes, and substantial cost savings over the entire system life cycle, thereby, decreasing the Total Cost of Ownership.

Design for
Maintainability

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offers a wealth of design practices not covered in typical engineering books, thus allowing readers to think outside the box when developing maintainability design requirements. The

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book's principles
and practices can
help engineers to
dramatically
improve their
ability to compete
in global markets
and gain
widespread
customer
satisfaction. This
important book:
Offers a complete

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overview of
maintainability
engineering as a
system
engineering
discipline Includes
contributions from
authors who are
recognized
leaders in the field
Contains real-life
design examples,
both good and

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bad, from various industries
Presents realistic illustrations of good maintainability design principles
Provides discussion of the interrelationships between maintainability with other related

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disciplines
Explores trending
topics in
technologies
Written for design
and logistics
engineers and
managers, Design
for Maintainability
is a
comprehensive
resource
containing the

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most reliable and innovative techniques for improving maintainability when designing a system or product.

This book provides an introduction to the philosophy of technology that is

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accessible to non-philosophers. It offers a survey of the current state-of-affairs in the philosophy of technology and also discusses the relevance of that for teaching about technology. The book includes questions and

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assignments and offers an extensive annotated bibliography for those who want to read more about the discipline. Although the body has been the focus of much contemporary cultural theory,

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the models that
are typically
applied neglect
the most salient
characteristics of
embodied existenc
e—movement,
affect, and
sensation—in favor
of concepts
derived from
linguistic theory.

In Parables for the

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Virtual Brian
Massumi views
the body and
media such as
television, film,
and the Internet,
as cultural
formations that
operate on
multiple registers
of sensation
beyond the reach
of the reading

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techniques
founded on the
standard
rhetorical and
semiotic models.
Renewing and
assessing William
James ' s radical
empiricism and
Henri Bergson ' s
philosophy of
perception
through the filter

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of the post-war
French philosophy
of Deleuze,
Guattari, and
Foucault, Massumi
links a cultural
logic of variation
to questions of
movement, affect,
and sensation. If
such concepts are
as fundamental as
signs and

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significations, he argues, then a new set of theoretical issues appear, and with them potential new paths for the wedding of scientific and cultural theory. Replacing the traditional opposition of

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literal and figural
with new
distinctions
between stasis
and motion and
between actual
and virtual,
Parables for the
Virtual tackles
related theoretical
issues by applying
them to cultural
mediums as

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diverse as
architecture, body
art, the digital art
of Stelarc, and
Ronald Reagan ' s
acting career. The
result is an
intriguing
combination of
cultural theory,
science, and
philosophy that
asserts itself in a

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crystalline and
multi-faceted
argument.
Parables for the
Virtual will
interest students
and scholars of
continental and
Anglo-American
philosophy,
cultural studies,
cognitive science,
electronic art,

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digital culture, and chaos theory, as well as those concerned with the “ science wars ” and the relation between the humanities and the sciences in general.

Nuclear Science
Abstracts
Design Thinking

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Book Review
Digest
Product and
Process Design
Design
Requirements
Workshop,
Cleveland, OH,
USA, June 3-6,
2007, Revised and
Invited Papers
Visualizing
Research

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Service Design and Delivery provides a comprehensive overview of the increasingly important role played by the service industry. Focusing on the development of different processes employed by service organizations, the

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book emphasizes management of service in relation to products. It not only explores the complexity of this relationship, but also introduces strategies used in the design and management of service across various sectors,

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highlighting where tools, techniques and processes applicable to one sector may prove useful in another. The implementation methods introduced in the book also illustrate how and why companies can transform themselves

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into service organizations. While the book is primarily intended as a text for advanced-level courses in service design and delivery, it also contains theoretical and practical knowledge beneficial to both practitioners in the

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service sector and
those in
manufacturing
contemplating
moving towards
service delivery.
This book presents
essential information
on systems and
interactions in
automotive
transmission

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technology and outlines the methodologies used to analyze and develop transmission concepts and designs. Functions of and interactions between components and subassemblies of transmissions are introduced,

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providing a basis for designing transmission systems and for determining their potentials and properties in vehicle-specific applications: passenger cars, trucks, buses, tractors and motorcycles. With these fundamentals

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the presentation provides universal resources for both state-of-the-art and future transmission technologies, including systems for electric and hybrid electric vehicles.

As optical technologies move closer to the core of

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modern computer architecture, there arise many challenges in building optical capabilities from the network to the motherboard. Rapid advances in integrated optics technologies are making this a reality.

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However, no comprehensive, up-to-date reference is available to the technologies and principles underlying the field. The Encyclopedic Handbook of Integrated Optics fills this void, collecting the work

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of 53 leading experts into a compilation of the most important concepts, phenomena, technologies, and terms covering all related fields. This unique book consists of two types of entries: the first is a detailed, full-length

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description; the other, a concise overview of the topic. Additionally, the coverage can be divided into four broad areas: A survey of the basics of integrated optics, exploring theory, practical concerns, and the

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fundamentals behind
optical devices
Focused discussion
on devices and
components such as
arrayed waveguide
grating, various
types of lasers,
optical amplifiers,
and optoelectronic
devices In-depth
examination of

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subsystems including MEMS, optical pickup, and planar lightwave circuits. Finally, systems considerations such as multiplexing, demultiplexing, 3R circuits, transmission, and reception. Offering a broad and complete

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treatment of the field, the Encyclopedic Handbook of Integrated Optics is the complete guide to the fundamentals, principles, and applications of integrated optics technology.

Ship Design

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Encyclopedic
Handbook of
Integrated Optics
Conceptual Design
A Holistic Approach
to Ship Design
What Engineers
Know and how
They Know it
Automotive
Engineering
Global resource

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consumption and anthropogenic carbon emissions are increasing at an unsustainable rate, causing noticeably adverse changes to our ecosystem and jeopardizing the ability for future generations to thrive. This realization has

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brought together
designers and
engineers to
holistically
incorporate all
aspects of
sustainability in the
product's entire life
cycle using
principles such as
green engineering
and design for
environment (DFE)

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and eco- design tools such as life cycle assessment (LCA). However, to properly assess and facilitate designs and technologies that are indeed more environmentally benign, changes are needed to shift from the conventional

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serial LCA to a more coupled and integrated sustainable life cycle design (iSLCD) approach that resonates the three pillars of sustainability. A unique concept of the Product Life Cycle Zodiac (PLCZ) is

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introduced that reveals the complete holistic product life cycle from Earth to landfill and enables the information flow of the different life cycle phases to be fed back or looped for product development and process planning. In

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addition, the precision of the iSLCD approach can be vastly improved by the leveraging of green manufacturing, such as the scales of green manufacturing (SGM), where changes at the manufacturing

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process level can propagate throughout all downstream stages. A case study reflecting the influence of design and manufacturing using the iSLCD framework is considered. A potential proxy for large carbon

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emission reductions is the electrification of the automotive industry, which has promised to provide a renewable and cleaner alternative to the conventional internal combustion engine (ICE).

Alternative energy vehicles such as the Polymer

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Electrolyte
Membrane (PEM)
fuel cell vehicle
utilizes compressed
hydrogen to offer
zero emissions
during the
operational use
phase. However,
despite being
commercially
available for over a
decade, current

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annual production volumes are more than several orders of magnitude lower than today's conventional ICEs. At current low production volumes the processes for PEM fuel cell manufacturing are burdened with large inefficiencies such

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as low throughput batch processing (as compared to continuous roll-to-roll processing), high equipment idle times, low material utilization and processing yields. These inefficiencies contribute to an increase of the specific energy

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consumption (SEC) and hence the environmental impact of the fuel cells to a point where the benefits of zero emissions may potentially be outweighed by the emissions during the manufacture of the fuel cell.

Furthermore, the

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low production volumes and the use of exotic materials such as platinum catalysts impedes the adoption of the technology due to prohibitively high cost. Therefore, it is of interest to analyze in, parallel with the

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environmental impacts, the cost implications and where identify area of potential cost reductions. The case study investigates the environmental and economical performance of PEM fuel cell manufacturing for

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automotive applications. The research is in part a collaborative effort with Daimler-Benz in attempts to assess and improve the current state-of-the-art manufacturing practices by leveraging the SGM. Detailed unit processes are

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modeled in terms of energy consumption as a function of manufacturing inputs and are integrated into a facility scale HVAC energy consumption model. The life cycle phases included in the model follow the product life cycle zodiac (PLCZ) from

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raw material extraction to product distribution and the various end-of-life pathways. The economical aspect is investigated using a design for manufacturing and assembly (DFMA) technique in conjunction with the environmental anal-

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ysis. A thorough analysis of the results and the breakdown of the component contributions and sensitivity analysis of the model is conducted. The sensitivity analysis provides insights to not only the the fuel cell manufacturing,

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but also highlights the importance of integrating the SGM. Lastly, the influence of data uncertainty is incorporated using a stochastic Monte Carlo technique. Visualizing Research guides postgraduate students in art and

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design through the development and implementation of a research project, using the metaphor of a 'journey of exploration'. For use with a formal programme of study, from masters to doctoral level, the book derives from the creative

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relationship
between research,
practice and
teaching in art and
design. It extends
generic research
processes into
practice-based
approaches more
relevant to artists
and designers,
introducing
wherever possible

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visual, interactive
and collaborative
methods. The
Introduction and
Chapter 1 'Planning
the Journey' define
the concept and
value of 'practice-
based' formal
research, tracking
the debate around
its development and
explaining key

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concepts and terminology. 'Mapping the Terrain' then describes methods of contextualizing research in art and design (the contextual review, using reference material); 'Locating Your Position' and 'Crossing the

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Terrain' guide the reader through the stages of identifying an appropriate research question and methodological approach, writing the proposal and managing research information.

Methods of evaluation and analysis are

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explored, and of strategies for reporting and communicating research findings are suggested. Appendices and a glossary are also included. Visualizing Research draws on the experience of researchers in different contexts

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and includes case studies of real projects. Although written primarily for postgraduate students, research supervisors, managers and academic staff in art and design and related areas, such as architecture and media studies, will

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find this a valuable research reference. An accompanying website www.visualizingresearch.info includes multimedia and other resources that complement the book.

Includes entries for maps and atlases.

Virtual Inertia

Synthesis and

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Control
Movement, Affect,
Sensation
Annual
Index/abstracts of
SAE Technical
Papers
Advances in
Simulation, Product
Design and
Development
An MDO Concept
for Large Civil

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Airliner Wings
Architectural Record
Maximising reader
insights into the
theory, models,
methods and
fundamental
reasoning of design,
this book addresses
design activities in
industrial settings,
as well as the actors
involved. This

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approach offers readers a new understanding of design activities and related functions, properties and dispositions.

Presenting a 'design mindset' that seeks to empower students, researchers, and practitioners alike, it

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features a strong focus on how designers create new concepts to be developed into products, and how they generate new business and satisfy human needs.

Employing a multi-faceted perspective, the book supplies the reader with a

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comprehensive
worldview of design
in the form of a
proposed model that
will empower their
activities as student,
researcher or
practitioner. We
draw the reader into
the core role of
design
conceptualisation
for society, for the

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development of industry, for users and buyers of products, and for citizens in relation to public systems. The book also features original contributions related to exploration, conceptualisation and product synthesis. Exploring

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both the power and limitations of formal design process models, methods, and tools viewed in the light of human ingenuity and cognition, the book develops a unique design mindset that adds human understanding to the list of methods and

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tools essential to design. This insight is distilled into useful mindset heuristics included throughout the book.

"The biggest contribution of Vincenti's splendidly crafted book may well be that it offers us a believably

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human image of the engineer."--Technology Review. Johns Hopkins Studies in the History of Technology. Merritt Roe Smith, Series Editor.

"The BIM Handbook is an extensively researched and meticulously written book, showing

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evidence of years of work rather than something that has been quickly put together in the course of a few months. It brings together most of the current information about BIM, its history, as well as its potential future in one convenient

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place, and can serve as a handy reference book on BIM for anyone who is involved in the design, construction, and operation of buildings and needs to know about the technologies that support it. The need for such a book is

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indisputable, and it is terrific that Chuck Eastman and his team were able to step up to the plate and make it happen. Thanks to their efforts, anyone in the AEC industry looking for a deeper understanding of BIM now knows exactly where to

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look for it."

—AECbytes book
review, August 28,
2008 (www.aecbytes.com/review/2008/BIMHandbook.html)

DISCOVER BIM: A
BETTER WAY TO
BUILD BETTER
BUILDINGS

Building Information
Modeling (BIM)

offers a novel

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approach to design, construction, and facility management in which a digital representation of the building process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings

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look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Second Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated

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with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team.

Updates to this edition include:

Completely updated material covering the current practice

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and technology in
this fast-moving field
Expanded coverage
of lean construction
and its use of BIM,
with special focus
on Integrated
Project Delivery
throughout the book
New insight on the
ways BIM facilitates
sustainable building
New information on

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interoperability
schemas and
collaboration tools
Six new case
studies Painting a
colorful and
thorough picture of
the state of the art in
building information
modeling, the BIM
Handbook, Second
Edition guides
readers to

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successful
implementations,
helping them to
avoid needless
frustration and costs
and take full
advantage of this
paradigm-shifting
approach to
construct better
buildings that
consume fewer
materials and

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require less time,
labor, and capital
resources.

NASA Space Flight

Program and

Project

Management

Handbook

Driving Innovation

Volume 1:

Optimisation of Ship

Design and

Operation for Life

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Cycle
Parables for the
Virtual
A Case Study on
PEM Fuel Cells
Proceedings:
Tutorials
This book deals
with ship design
and in particular
with
methodologies of

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concept-design-and-ysis-of-membrane-structures

the preliminary design of ships. The book is complemented by a basic bibliography and five appendices with useful updated charts for the selection of the main dimensions and other basic

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characteristics of different types of ships (Appendix A), the determination of hull form from the data of systematic hull form series (Appendix B), the detailed description of the relational method

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for the preliminary estimation of ship weights (Appendix C), a brief review of the historical evolution of shipbuilding science and technology from the prehistoric era to date (Appendix D) and finally a

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historical review of
regulatory
developments of
ship's damage
stability to date
(Appendix E). The
book can be used
as textbook for
ship design
courses or as
additional reading
for university or

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college students of
naval architecture
courses and
related disciplines;
it may also serve
as a reference
book for naval
architects,
practicing
engineers of
related disciplines
and ship officers,

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who like to enter the ship design field systematically or to use practical methodologies for the estimation of ship's main dimensions and of other ship main properties and elements of ship design.

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Discover BIM: A
better way to build
better buildings
Building
Information
Modeling (BIM)
offers a novel
approach to
design,
construction, and
facility
management in

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which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way

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buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and

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organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include:

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Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM

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standards and
guides A
discussion on how
various
professional roles
have expanded
through the
widespread use
and the new
avenues of BIM
practices and
services A wealth

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of new case
studies that clearly
illustrate exactly
how BIM is applied
in a wide variety of
conditions Painting
a colorful and
thorough picture of
the state of the art
in building
information
modeling, the BIM

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Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to

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construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Since its inception in 1968, software engineering has undergone numerous

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changes. In the early years, software development was organized using the waterfall model, where the focus of requirements engineering was on a frozen requirements

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document, which formed the basis of the subsequent design and implementation process. Since then, a lot has changed: software has to be developed faster, in larger and distributed teams,

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for pervasive as well as large-scale applications, with more flexibility, and with ongoing maintenance and quick release cycles. What do these ongoing developments and changes imply for the future of

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requirements
engineering and
software design?
Now is the time to
rethink the role of
requirements and
design for software
intensive systems
in transportation,
life sciences,
banking, e-
government and

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other areas. Past assumptions need to be questioned, research and education need to be rethought. This book is based on the Design Requirements Workshop, held June 3-6, 2007, in Cleveland, OH,

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USA, where leading researchers met to assess the current state of affairs and define new directions. The papers included were carefully reviewed and selected to give an overview of the

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current state of the art as well as an outlook on probable future challenges and priorities. After a general introduction to the workshop and the related NSF-funded project, the contributions are

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organized in
topical sections on
fundamental
concepts of
design; evolution
and the fluidity of
design; quality and
value-based
requirements;
requirements
intertwining; and
adapting

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requirements
practices in
different domains.
Service Design
and Delivery
Scientific and
Technical
Aerospace
Reports
NASA SP.
Methodologies of
Preliminary Design

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Electrical &
Electronics
Abstracts
Integrating Green
Manufacturing in
Sustainable Life
Cycle Design

This book provides a
thorough
understanding of the
basic principles,
synthesis, analysis,
and control of virtual

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inertia systems. It uses the latest technical tools to mitigate power system stability and control problems under the presence of high distributed generators (DGs) and renewable energy sources (RESs) penetration. This book uses a simple virtual inertia control

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structure based on the frequency response model, complemented with various control methods and algorithms to achieve an adaptive virtual inertia control respect to the frequency stability and control issues. The chapters capture the important aspects in virtual

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inertia synthesis and control with the objective of solving the stability and control problems regarding the changes of system inertia caused by the integration of DGs/RESs. Different topics on the synthesis and application of virtual inertia are thoroughly

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covered with the description and analysis of numerous conventional and modern control methods for enhancing the full spectrum of power system stability and control. Filled with illustrative examples, this book gives the necessary fundamentals and

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insight into practical aspects. This book stimulates further research and offers practical solutions to real-world power system stability and control problems with respect to the system inertia variation triggered by the integration of RESs/DGs. It will be of use to engineers,

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academic
researchers, and
university students
interested in power
systems dynamics,
analysis, stability and
control.

This book introduces
a holistic approach to
ship design and its
optimisation for life-
cycle operation. It
deals with the
scientific background

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of the adopted approach and the associated synthesis model, which follows modern computer aided engineering (CAE) procedures. It integrates techno-economic databases, calculation and multi-objective optimisation modules and s/w tools with a well-established Computer-

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Aided Design (CAD) platform, along with a Virtual Vessel Framework (VVF), which will allow virtual testing before the building phase of a new vessel. The resulting graphic user interface (GUI) and information exchange systems enable the exploration of the huge design space to

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a much larger extent and in less time than is currently possible, thus leading to new insights and promising new design alternatives. The book not only covers the various stages of the design of the main ship system, but also addresses relevant major onboard systems/components

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in terms of life-cycle performance to offer readers a better understanding of suitable outfitting details, which is a key aspect when it comes the outfitting-intensive products of international shipyards. The book disseminates results of the EU funded Horizon 2020 project

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HOLISHIP.

This thesis investigates the application of Multi-Disciplinary Design, Analysis and Optimisation to the design of a large civil airliner, similar in size as the future A3XX. For the first time structural optimisation, manufacturing cost

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and aerodynamic effects are simultaneously integrated within a realistic, complex aircraft design problem: the wing box of such a large airliner. A novel multi-level system was developed to incorporate structural effects and manufacturing cost:

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mass is treated at a top-level while costs are treated at a structural sub-level. It allows a designer to study cost changes with respect to design changes and the interaction of cost with other disciplines such as structures and aerodynamics. The flexibility of the system allows

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companies to import their own results or cost data and to perform cost studies based on historical data or highly novel processes. Structural optimisation of the wing box using MSc/NASTRAN and STARS, the development of a metal and composite cost model and the

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overall MDO
methodology are
being discussed.
Local Electricity
Markets
Government Reports
Announcements &
Index
BIM Handbook
Design Requirements
Engineering: A Ten-
Year Perspective
Interpretations,
Mindset and Models

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Implementing
Embedded Training
(ET).
Local Electricity
Markets introduces
the fundamental
characteristics,
needs, and
constraints shaping
the design and
implementation of
local electricity
markets. It

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addresses current
proposed local
market models and
lessons from their
limited practical
implementation. The
work discusses
relevant decision
and informatics
tools considered
important in the
implementation of
local electricity

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markets. It also includes a review on management and trading platforms, including commercially available tools. Aspects of local electricity market infrastructure are identified and discussed, including physical and

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software
infrastructure. It
discusses the
current regulatory
frameworks
available for local
electricity market
development
internationally. The
work concludes with
a discussion of
barriers and
opportunities for

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local electricity
markets in the
future. Delineates
key components
shaping the design
and implementation
of local electricity
market structure
Provides a coherent
view on the enabling
infrastructures and
technologies that
underpin local

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market expansion
Explores the current
regulatory
environment for
local electricity
markets drawn from
a global panel of
contributors
Exposes future
paths toward
widespread
implementation of
local electricity

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markets using an
empirical review of
barriers and
opportunities
Reviews relevant
local electricity
market case
studies, pilots and
demonstrators
already deployed
and under
implementation
Journal of Ship

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Production
The Automotive
Transmission Book
Design for
Maintainability
Research Product -
U.S. Army Research
Institute for the
Behavioral and
Social Sciences
Teaching about
Technology
Breakthrough in

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Design, Industrial
Innovation
Practices, and
Education