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Although the problem of tool design
- involving both the selection of
suitable geometry and material- has

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exercised the attention of metal forming engineers for as long as this industrial activity has existed, the approach to its solution has been generally that of the 'trial and error' variety. It is only relatively recently that the continuing expansion of the

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bulk metal-forming industry, combined with an increase in the degree of sophistication required of its products and processes, has focussed attention on the problem of optimisation of tool design. This, in turn, produced a considerable

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expansion of theoretical and practical investigations of the existing methods, techniques, and concepts, and helped to systematise our thinking and ideas in this area of engineering activity. In the virtual absence, so far, of a single,

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encyclopaedic, but sufficiently deep, summation of the state of the art, a group of engineers and materials scientists felt that an opportune moment had arrived to try and produce, concisely, answers to many tool designers' dilemmas. This book

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attempts to set, in perspective, the existing - and proven - concepts of design, to show their respective advantages and weaknesses and to indicate how they should be applied to the individual main forming processes of rolling, drawing,

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extrusion and forging.

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INTRODUCTION, Second Edition, features an innovative instructional approach emphasizing projects and exploration as learning tools. This engaging text provides an overview of the basic engineering principles that shape our modern

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world, covering key concepts within a flexible, two-part format. Part I describes the process of engineering and technology product design, while Part II helps students develop specific skill sets needed to understand and participate in the

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programs using the innovative Project Lead the Way curriculum to prepare students for success in engineering careers. The text's broad scope and sound coverage of essential concepts and techniques also make it a perfect addition to

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any engineering design course.

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From Consumer Products to

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Non deterministic approaches have enabled industries to save billions by reducing design and warranty costs and by improving quality. Considering the lack of comprehensive and defini
From the Reviews "[This book]

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contains an excellent blend of both Shiny-specific topics ... and practical advice from software development that fits in nicely with Shiny apps. You will find many nuggets of wisdom sprinkled throughout these chapters...." Eric

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Nantz, Host of the R-Podcast and the Shiny Developer Series (from the Foreword) "[This] book is a gradual and pleasant invitation to the production-ready shiny apps world. It ...exposes a comprehensive and robust

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workflow powered by the {golem} package. [It] fills the not yet covered gap between shiny app development and deployment in such a thrilling way that it may be read in one sitting.... In the industry world, where processes robustness

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production-grade shiny applications, by providing advice, tools, and a methodology to work on web applications with R. This book starts with an overview of the challenges which arise from any big web application project: organizing

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work, thinking about the user interface, the challenges of teamwork and the production environment. Then, it moves to a step-by-step methodology that goes from the idea to the end application. Each part of this process will cover

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in detail a series of tools and methods to use while building production-ready shiny applications. Finally, the book will end with a series of approaches and advice about optimizations for production. Features Focused on

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practical matters: This book does not cover Shiny concepts, but practical tools and methodologies to use for production. Based on experience: This book is a formalization of several years of experience building Shiny

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applications. Original content: This book presents new methodologies and tooling, not just a review of what already exists. Engineering Production-Grade Shiny Apps covers medium to advanced content about Shiny, so it will help

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people that are already familiar with building apps with Shiny, and who want to go one step further.

This book conceptualises and develops crowdsourcing as an organisational business process. It argues that although for many

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organisations crowdsourcing still implies an immature one-off endeavour, when developed to a more repeatable business process it can harness innovation and agility. The book offers a process model to guide organisations

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towards the establishment of business process crowdsourcing (BPC), and empirically showcases and evaluates the model using two current major crowdsourcing projects. In order to consolidate the domain knowledge, the BPC model

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is turned into a heavyweight ontology capturing the concepts, hierarchical relationships and decision-making relationships necessary to establish crowdsourcing as a business process in an organisation. Lastly,

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based on the ontology it presents a decision tool that provides advice on making informed decisions about the performance of business process crowdsourcing activities. Engineering Production-Grade Shiny Apps

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*Embrace Open Engineering
and accelerate the design
and manufacturing
processes Product
development is a team
sport, but most companies
don't practice it that*

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way. Organizations should be drawing on the creativity of engaged customers and outsiders, but instead they rely on the same small group of internal "experts" for new

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ideas. Designers and engineers should be connecting with marketing, sales, customer support, suppliers, and most importantly, customers.
The Art of Product Design

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explains the rise of "Open Engineering," a way of breaking down barriers and taking advantage of web-based communities, knowledge, and tools to accelerate the design and

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*manufacturing processes.
Explains how to establish
open flows of information
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of input from different*

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*is crowdsourcing, it's
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*The Art of Product Design
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*These proceedings contain
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*Institute on Concurrent
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held in Iowa City, Iowa,
25 May -5 June, 1992.
Lectures were presented by*

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*leaders from Europe and
North America in
disciplines contributing
to the emerging
international focus on
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*Participants in the
Institute were specialists
from throughout NATO in
disciplines constituting
Concurrent Engineering,
many of whom presented
contributed papers during*

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the Institute and all of whom participated actively in discussions on technical aspects of the subject. The proceedings are organized into the following five parts: Part

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*1 Basic Concepts and
Methods Part 2 Application
Sectors Part 3
Manufacturing Part 4
Design Sensitivity
Analysis and Optimization
Part 5 Virtual Prototyping*

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*and Human Factors Each of
the parts is comprised of
papers that present state-
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systems. The lead-off papers in each part are based on invited lectures, followed by papers based on contributed presentations made by participants in the

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*scientific field is
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the evolution, in the field of training of Integrated Design in Mechanics and Productics, in quite close connection with the ever changing industrial needs over the

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past 20 years. It is in charge of promoting both exchanges of experience and know-how capitalisation. It has a paramount mission to fulfil, be it in the field

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of initial and continuous education, technological transfer and knowledge dissemination through strong links with research labs. For the second time, in fact, the IDMME

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Engineering Design: An

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Introduction

As its name implies, the aim of Systems Design and Engineering: Facilitating Multidisciplinary Development Projects is to help systems engineers develop the skills

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***and thought processes
needed to successfully
develop and implement
engineered systems. Such
expertise typically does not
come through study but from
action, hard work, and***

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cooperation. To that end, the authors have chosen a "hands-on" approach for presenting material rather than concentrating on theory, as so often is the case in a classroom setting. This

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attractive and accessible text is a mix of theory and practical approach, illustrated with examples that have enough richness and variability to hold your attention. Models are presented for controlling the

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design, change, and engineering processes. Various aspects of systems engineering and methods providing the big picture at system level are discussed. In some ways, you can think of

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the book as a compact "starter's kit" for systems engineers. Although the authors are recognized experts in academic settings, they attribute much of their success in systems

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engineering to their own hands-on experiences and want to show you how to achieve that same level of expertise. Simply reading this book or any other book will not suffice for the learning

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process to become a systems engineer - no book will do that. However, by following the principles laid out in this book, you can develop the necessary skills and expertise to help you start an

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interesting, challenging, and rewarding career as a systems engineer.

This book is a sequel to The Practice of Machine Design, and The Practice of Machine Design, Book 3 – Learning

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from Failure. It deals with what happens inside the human mind during such activities as design and production, and how we reach decisions.

Unlike other regular machine design textbooks or

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handbooks that describe how to accomplish good designs, the present volume explains what the designer thinks when making design decisions. A design starts with a vague concept and gradually takes

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shapes as it proceeds, and during this process the mind extracts elements and makes selections and decisions, the results expressed in sketches, drawings, or sentences. This book aims at exposing the

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reader to the processes of element extraction, selection, and decision-making through real-life examples. Such a book has never been published before. An explicit description of the processes

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of making decisions, on the contrary, has been greatly needed by designers, and the managers of design groups have been much aware of such a lack. The non-existence of this type of book in the past

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is due to the following three reasons: the benefit of describing the mind process of design was never made clear, the method of such clarification was unknown, and no one ever invested the

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vast energy for producing such a manifestation. Under these circumstances, we the members of the “Practice of Machine Design Research Group” boldly tackled the problem of expressing the

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***decision processes in design
and have documented our
findings in this book.***

***Today, a prosperous
technology company can be
disrupted and put out of
business in a blink of an eye.***

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The development of many different technologies that once took years can be done in months or weeks. There are also few examples where the engineering work is completely contained in one

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company or one engineering organization. Business strategies have evolved. The analysis of competitive forces in an industry has matured to include the concepts of disruptive innovation and

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coopetition. In an ecosystem characterized by rapid changes in technology and how it is developed, an engineering R&D organization will quickly become irrelevant if it fails to keep the pace of

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***innovation needed to succeed.
This book provides readers
with a holistic approach to
engineering management. We
have seen that successful
managers create a strong
foundation of a common***

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culture that enables learning, value creation, diversity and inclusion. They create organizations that tightly connect the core engineering functions of strategic planning, research and

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development and are able to comprehend and direct a broader R&D system that stretches well beyond their own organization's boundary. Doing all of this to extract the greatest value in the least

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amount of time is what we call holistic engineering management. The content for this book is based on over 105 years of combined experience working in a rapidly changing industry. In most chapters,

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practical examples and case studies of the concepts provided are given. As noted in the foreword by Pat Gelsinger (CEO, VMWare) and in comments from other technology leaders: Aart de

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Geus (Chairman and co-CEO, Synopsys, Inc.), Aicha Evans (CEO, Zoox, Inc.), William M Holt, (former Executive VP, GM, Intel, Corp.), and Amir Faintuch (Senior VP, GM, GlobalFoundries, Inc.), this

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***book will be valuable for
students of engineering
management and current
engineering managers.***

Business Process

Crowdsourcing

Perspective On Holistic

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***Engineering Management, A:
Learning, Adapting And
Creating Value
Tool Engineering A Complete
Guide - 2020 Edition***

Results of the IMPROVE

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Project

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As the world becomes increasingly globalized, today ' s companies expect to hire engineers who are effective in

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a global business environment. Although you can find many books covering globalization, most of them are aimed at business, management, or social sciences. Developed with engineers in mind, *Global Engineering: Design, Decision Making, and Communication* covers the theory,

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models, and decision making tools for incorporating globalization into engineering work. Written by a multidisciplinary team of experts in industrial, mechanical, and manufacturing engineering and organizational communications, this book is a primer on how to improve

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designs, make better decisions, and communicate more effectively in an international working environment. The contents of the book reflect the authors ' multidisciplinary perspective and their experience in working on projects around the world. The book presents globalization as a

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phenomenon affecting the way companies operate and their engineering functions. It uses a case study format based on system improvement projects and real industrial projects, ranging from design to supply chain and logistics problems. This case study format

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allows for a natural presentation of critical technical and non-technical concepts and their complex interactions. The challenge that engineers face in a global environment results from the need to be aware of interdependencies and to be able to determine which ones are

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most important in each situation. Unique in its focus on engineering, this book provides a framework for how to better design, make decisions, and communicate in the new era of global competition. Rapid advances in computer technology and the internet have

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created new opportunities for delivering instruction and revolutionizing the learning environment. This development has been accelerated by the significant reduction in cost of the Internet infrastructure and the easy accessibility of the World Wide Web.

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This book evaluates the usefulness of advanced learning systems in delivering instructions in a virtual academic environment for different engineering sectors. It aims at providing a deep probe into the most relevant issues in engineering education and digital learning and

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offers a survey of how digital engineering education has developed, where it stands now, how research in this area has progressed, and what the prospects are for the future.

This book describes the concepts and methods of a discipline called design assurance, and reveals many

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nontechnical aspects that are necessary for getting the work done in an engineering department. It is helpful to engineers and their managers in understanding and using design assurance techniques.

Global Engineering
Design, Decision Making, and

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Usability Engineering

Acquire the Skills, Tools,

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*Greece in June 2014,
jointly with 13 other
thematically similar
conferences. The total of
1476 papers and 220
posters presented at the
HCII 2014 conferences were*

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submissions. These papers
address the latest
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and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of Human-Computer Interaction, addressing major advances

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in knowledge and effective use of computers in a variety of application areas. The total of 256 contributions included in the DUXU proceedings were carefully reviewed and

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selected for inclusion in this four-volume set. The 66 papers included in this volume are organized in topical sections on design theories, methods and tools; user experience

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*evaluation; heuristic
evaluation; media and
design; design and
creativity.*

*Who should receive
measurement reports? How
is Tool engineering data*

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gathered? What is out of scope? Ask yourself: how would you do this work if you only had one staff member to do it? What are the costs and benefits? Defining, designing,

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*creating, and implementing
a process to solve a
challenge or meet an
objective is the most
valuable role... In EVERY
group, company,
organization and*

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department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the

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two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back

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and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether

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*their title is
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(Vice-)President, CxO
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person who asks the right questions to make Tool Engineering investments work better. This Tool Engineering All-Inclusive Self-Assessment enables You to be that person. All

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*the tools you need to an
in-depth Tool Engineering
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based questions, organized
into seven core areas of
process design, this Self-*

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Assessment will help you identify areas in which Tool Engineering improvements can be made. In using the questions you will be better able to: - diagnose Tool Engineering

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and processes using
accepted diagnostic
standards and practices -
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Mechanical Engineering

MFPG, Engineering Design

MELIB : a Tool for

Mechanical Engineers

**IMPROVE stands for "Information
Technology Support for
Collaborative and Distributed**

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Design Processes in Chemical Engineering" and is a large joint project of research institutions at RWTH Aachen University. This volume summarizes the results after 9 years of cooperative research work. The focus of IMRPOVE is on understanding,

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formalizing, evaluating, and, consequently, improving design processes in chemical engineering. In particular, IMPROVE focuses on conceptual design and basic engineering, where the fundamental decisions concerning the design or redesign of a

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**chemical plant are undertaken.
Design processes are analyzed and
evaluated in collaboration with
industrial partners.**

**Written by the author of the best-
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the methods of usability**

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engineering. The book provides the tools needed to avoid usability surprises and improve product quality. Step-by-step information on which method to use at various stages during the development lifecycle are included, along with detailed information on how to run

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a usability test and the unique issues relating to international usability. * Emphasizes cost-effective methods that developers can implement immediately * Instructs readers about which methods to use when, throughout the development lifecycle, which

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machinery. Numerous engineering
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engineering, electrical engineering, control engineering, and computer hardware and software engineering, are covered. The book offers guidelines and covers design for machine tools, prototyping, augmented reality for machine tools, modern

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Development Projects

Tools for Chemical Product Design: From Consumer Products to Biomedicine describes the challenges involved in systematic product design across a variety of

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industries and provides a comprehensive overview of mathematical tools aimed at the design of chemical products, from molecular design to customer products. Chemical product design has become

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increasingly important over the past decade and includes a wide range of sectors including gasoline additives and blends in the petroleum industry, active ingredients and excipients in the pharmaceutical industry, and a

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variety of consumer products and specialty chemicals.

Traditionally, such products have been designed through trial and error methods, which not only are time-consuming, but more importantly only provide limited

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knowledge that can be translated
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industries Describes the challenges involved in systematic product design as well as the latest methods for solving such problems Covers a wide range of sectors including gasoline additives and blends in

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the petroleum industry, active ingredients and excipients in the pharmaceutical industry, and a variety of consumer products and specialty chemicals

Designing engineering products
technical systems and/or

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transformation processes requires a range of information, know-how, experience, and engineering analysis, to find an optimal solution. Creativity and open-mindedness can be greatly assisted by systematic design

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engineering, which will ultimately lead to improved outcomes, documentatio

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design methods and tools in industrial engineering, advanced findings in mechanics and material science, and relevant technological applications. Topics span from geometric modelling tools to applications of virtual/augmented

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reality, from interactive design to ergonomics, human factors research and reverse engineering. Further topics include integrated design and optimization methods, as well as experimental validation techniques for product, processes and systems

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development, such as additive manufacturing technologies. This book is based on the International Conference on Design Tools and Methods in Industrial Engineering, ADM 2019, held on September 9–10, 2019, in Modena, Italy, and

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organized by the Italian Association of Design Methods and Tools for Industrial Engineering, and the Department of Engineering “Enzo Ferrari” of the University of Modena and Reggio Emilia, Italy. It provides academics and professionals with a

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rake machining, and the economics of jig and fixture practice are also discussed. This text is comprised of 22 chapters; the first of which provides an overview of the function and organization of the jig and tool department. Attention then turns to

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the subject of cutting tool materials, with emphasis on the science of surface technology and the effects on the economics of tooling. A chapter on diamond tools offers insights into boring and turning operations, and examples of the

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features of preset tooling are presented. The chapter on air or oil operated fixtures contains examples from actual practice, some of the pneumatic examples being applicable to holding small units where the machining time is in

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seconds, and the rapid insertion and removal of work is essential. The reader is also introduced to the methods of truing grinding wheels, including surface grinding, and diamond honing. The book concludes by highlighting the

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