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Tool
Engineering
And Design
Nagpal

The Book Is
Intended To Serve
As A Textbook For
The Final And Pre-
Final Year B.Tech.
Students Of

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Mechanical,
Production,
Aeronautical And
Textile
Engineering
Disciplines. It Can
Be Used Either For
A One Or A Two
Semester Course.
The Book Covers
The Main Areas Of
Interest In Metal

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Machining
Technology
Namely Machining
Processes,
Machine Tools,
Metal Cutting
Theory And
Cutting Tools.
Modern
Developments
Such As Numerical
Control, Computer-

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Aided

Manufacture And
Non-Conventional
Processes Have
Also Been
Treated. Separate
Chapters Have
Been Devoted To
The Important
Topics Of Machine
Tool Vibration,
Surface Integrity

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And Machining
Economics. Data
On Recommended
Cutting Speeds,
Feeds And Tool
Geometry For
Various
Operations Has
Been Incorporated
For Reference By
The Practising
Engineer. Salient

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Features Of
Second Edition *
Two New Chapters
Have Been Added
On Nc And Cnc
Machines And Part
Programming. *
All Chapters Have
Been Thoroughly
Revised And
Updated With New
Information. *

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More Solved
Examples Have
Been Added. *
New Material On
Tool Technology. *
Improved Quality
Of Figures And
More Photographs.
One-stop Guide to
software testing
types, software
errors, and

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planning process

DESCRIPTION

Software testing is conducted to assist testers with information to improvise the quality of the product under testing. The book primarily aims to present testing

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concepts,
principles,
practices,
methods cum
approaches used
in practice. The
book will help the
readers to learn
and detect faults
in software before
delivering it to the
end user. The

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book is a judicious mix of software testing concepts, principles, methodologies, and tools to undertake a professional course in software testing. The book will be a useful resource for

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students,
academicians,
industry experts,
and software
architects to learn
artefacts of
testing. Book
discuss the
foundation and
primary aspects
connected to the
world of software

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testing, then it discusses the levels, types and terminologies associated with software testing. In the further chapters it will gives a comprehensive overview of software errors

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faced in software testing as well as various techniques for error detection, then the test case development and security testing. In the last section of the book discusses the defect tracking,

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test reports,
software
automation
testing using the
Selenium tool and
then ISO/IEEE-
based software
testing standards.

KEY FEATURES

Presents a
comprehensive
investigation

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about the
software testing
approach in terms
of techniques,
tools and
standards
Highlights test
case development
and defect
tracking In-depth
coverage of test
reports

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development

Covers the

Selenium testing
tool in detail

Comprehensively
covers

IEEE/ISO/IEC

software testing

standards WHAT

WILL YOU LEARN

With this book,

the readers will be

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able to learn:

Taxonomy,
principles and
concepts
connected to
software testing.
Software errors,
defect tracking,
and the entire
testing process to
create quality
products.

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Generate test cases and reports for detecting errors, bugs, and faults. Automation testing using the Selenium testing tool. Software testing standards as per IEEE/ISO/IEC to conduct standard

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and quality testing. WHO THIS BOOK IS FOR The readers should have a basic understanding of software engineering concepts, object-oriented programming and basic

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programming
fundamentals.

Table of Contents

1. Introduction to
Software Testing

2. Software

Testing Levels,

Types, Terms, and

Definitions 3.

Software Errors 4.

Test Planning

Process

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(According to IEEE
standard 829) 5.

Test Case

Development 6.

Defect Tracking 7.

Types of Test

Reports 8.

Software Test

Automation 9.

Understanding the

Software Testing

Standards

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Theory of Automata is designed to serve as a textbook for undergraduate students of B..E, B.Tech. CSE and MCA/IT. It attempts to help students grasp the essential concepts involved in

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automata theory.

Design Solutions

for User-Centric

Information

Systems

Encyclopedia of

Materials Science

and Engineering

Science Meets

Technology

Press Tools Design

and Construction

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International
Books in Print
Swarm
Intelligence for
Electric and
Electronic
Engineering

*This two-volume set
addresses both
current and
developing topics of
advanced*

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machining technologies and machine tools used in industry. The treatments are aimed at motivating and challenging the reader to explore viable solutions to a variety of questions regarding product design and optimum selection

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of machining operations for a given task. This two-volume set will be useful to professionals, students, and companies in the areas of mechanical, industrial, manufacturing, materials, and

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*production
engineering fields.
Traditional
Machining
Technology covers
the technologies,
machine tools, and
operations of
traditional
machining
processes. These
include the general-
purpose machine*

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tools used for turning, drilling, and reaming, shaping and planing, milling, grinding and finishing operations. Thread and gear cutting, and broaching processes are included along with semi-automatic,

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*automatic, NC and
CNC machine tools,
operations, tooling,
mechanisms,
accessories, jigs
and fixtures, and
machine tool
dynamometry are
discussed. Non-
Traditional and
Advanced
Machining
Technologies*

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covers the technologies, machine tools, and operations of non-traditional mechanical, chemical and thermal machining processes. Assisted machining technologies, machining of difficult-to-cut

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materials, design for machining, accuracy and surface integrity of machined parts, environment-friendly machine tools and operations, and hexapods are also presented. The topics covered throughout this volume reflect the

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rapid and significant advances that have occurred in various areas in machining technologies.

Industrial engineering affects all levels of society, with innovations in manufacturing and other forms of engineering

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*oftentimes
spawning cultural
or educational
shifts along with
new technologies.
Industrial
Engineering:
Concepts,
Methodologies,
Tools, and
Applications serves
as a vital
compendium of*

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research, detailing the latest research, theories, and case studies on industrial engineering.

Bringing together contributions from authors around the world, this three-volume collection represents the most sophisticated research and

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developments from the field of industrial engineering and will prove a valuable resource for researchers, academics, and practitioners alike. This book attempts to bridge the gap between academic theory and

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*contemporary
industrial practice
in press tools and
requisite
equipment. The
treatise provides
guidelines for
selection presses,
and describes
manufacturing
methods for press
tools. It enumerates
common design*

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*errors, and includes
case studies
highlighting pitfalls
in press work.
Serves
supplementary
reading for post
diploma courses in
tool engineering.
Global Challenges
and Strategic
Disruptors in Asian
Businesses and*

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Economies

Tool Design

ICIMA 2018

*Design of Tools for
Deformation*

Processes

*Fundamentals and
Applications*

*Traditional
Machining
Technology*

This

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comprehensive
introduction
to basic
manufacturing
processes is
ideal for both
degree and
diploma
courses in
engineering.
With several
pedagogical

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features, the text makes the topics understandable and appealing for students. The book first introduces the concepts of engineering materials and their

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properties,
measurement
and quality in
manufacturing
and allied
activities
before
dwelling upon
the details of
different
manufacturing
processes such

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as machining,
casting, metal
forming,
powder
metallurgy and
joining. To
keep pace with
the latest
advancements
in technology,
use of non-
conventional

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resources,
applications
of computers,
and use of
robots in
manufacturing
are also
discussed in
considerable
detail. The
text also
provides a

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thorough
treatment of
topics on
economy and
management of
production.

Tool

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and DesignMach
ining Technolo
gyMachine
Tools and

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OperationsCRC
Press

The
application of
computer-aided
design and
manufacturing
techniques is
becoming
essential in
modern metal-
forming

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technology.

Thus process
modeling for
the
determination
of deformation
mechanics has
been a major
concern in
research . In
light of these
developments,

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the finite
element
method--a
technique by
which an
object is
decomposed
into pieces
and treated as
isolated,
interacting
sections--has

steadily
assumed
increased
importance.
This volume
addresses
advances in
modern metal-
forming
technology,
computer-aided
design and

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engineering,
and the finite
element
method.

Algorithms and
Information
Retrieval in
Java
Industrial
Engineering
And Management
Machining

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**Technology
Fundamentals
of Metal
Cutting and
Machine Tools
Tool
Engineering
Principles,
Applications,
Techniques,
and Practices
If you're a**

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**student studying
computer science
or a software
developer
preparing for
technical
interviews, this
practical book
will help you
learn and review
some of the most
important ideas
in software
engineering—data**

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structures and algorithms—in a way that's clearer, more concise, and more engaging than other materials. By emphasizing practical knowledge and skills over theory, author Allen Downey

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shows you how to use data structures to implement efficient algorithms, and then analyze and measure their performance. You'll explore the important classes in the Java collections framework (JCF),

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how they're implemented, and how they're expected to perform. Each chapter presents hands-on exercises supported by test code online. Use data structures such as lists and maps, and

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**understand how
they work Build
an application
that reads
Wikipedia pages,
parses the
contents, and
navigates the
resulting data
tree Analyze
code to predict
how fast it will
run and how much
memory it will**

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**require Write
classes that
implement the
Map interface,
using a hash
table and binary
search tree
Build a simple
web search
engine with a
crawler, an
indexer that
stores web page
contents, and a**

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retriever that
returns user
query results
Other books by
Allen Downey
include Think
Java, Think
Python, Think
Stats, and Think
Bayes.

The creation of
a Fifth Edition
is proof of the
continuing

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**vitality of the
book's contents,
including: tool
design and
materials; jigs
and fixtures;
workholding
principles; die
manipulation;
inspection,
gaging, and
tolerances;
computer
hardware and**

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**software and
their
applications;
joining
processes, and
pressworking
tool design. To
stay abreast of
the newer
developments in
design and
manufacturing,
every effort has
been made to**

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include those technologies that are currently finding applications in tool engineering. For example, sections on rapid prototyping, hydroforming, and simulation

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have been added or enhanced. The basic principles and methods discussed in Fundamentals of Tool Design can be used by both students and professionals for designing efficient tools. Offering complete

coverage of the technologies, machine tools, and operations of a wide range of machining processes, Machining Technology presents the essential principles of machining and then examines

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**traditional and
nontraditional
machining
methods.**

**Available for
the first time
in one easy-to-
use resource,
the book
elucidates the
fundamentals,
basic elements,
and operations
of the general**

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**purpose machine
tools used for
the production
of cylindrical
and flat
surfaces by
turning,
drilling and
reaming, shaping
and planing,
milling, boring,
broaching, and
abrasive
processes.**

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**Machine Tools
and Operations
Cold and Hot
Forging
Power Plant
Engineering
Metal Forming
and the Finite-
Element Method
Software
Engineering for
Self-Adaptive
Systems
New Interdiscipl**

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inary Science

Although the self-adaptability of systems has been studied in a wide range of disciplines, from biology to robotics, only recently has the software engineering

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community

recognized its key role in enabling the development of future software systems that are able to self-adapt to changes that may occur in the system, its requirements, or the environment

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in which it is
deployed. The 12
carefully reviewed
papers included in
this state-of-the-
art survey
originate from the
International
Seminar on
Software
Engineering for
Self-Adaptive

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Systems, held in
Dagstuhl Castle,
Germany, in
January 2008.
They examine the
current state-of-
the-art in the field,
describing a wide
range of
approaches
coming from
different strands

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of software
engineering, and
present future
challenges facing
this ever-resurgent
and challenging
field of research.
Also included in
this book is an
invited roadmap
paper on the
research

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challenges facing self-adaptive systems within the area of software engineering, based on discussions at the Dagstuhl Seminar and put together by several of its participants. The papers have been

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divided into
topical sections on
architecture-based
self-adaptation,
context-aware and
model-driven self-
adaptation, and
self-healing. These
are preceded by
three research
roadmap papers.
With growing

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developments in artificial intelligence and focus on swarm behaviors; algorithms have been utilized in solving a variety of problems in the field of engineering. This approach has been

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specifically suited
to face the
challenges in
electric and
electronic
engineering.
Swarm
Intelligence for
Electric and
Electronic
Engineering
provides an

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exchange of
knowledge on the
advances,
discoveries, and
improvements of
swarm intelligence
in electric and
electronic
engineering. This
comprehensive
collection aims to
bring together

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new swarm-based algorithms as well as approaches to complex problems and various real-world applications. This book reports on cutting-edge design methods and tools in industrial engineering,

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

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interactive design
to ergonomics,
human factors
research and
reverse
engineering.

Further topics
include integrated
design and
optimization
methods, as well
as experimental

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validation

techniques for
product, processes
and systems
development, such
as additive
manufacturing
technologies. This
book is based on
the International
Conference on
Design Tools and

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Methods in
Industrial
Engineering, ADM
2019, held on
September 9–10,
2019, in Modena,
Italy, and
organized by the
Italian Association
of Design Methods
and Tools for
Industrial

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Engineering, and
the Department of
Engineering

“ Enzo Ferrari ”
of the University
of Modena and
Reggio Emilia,
Italy. It provides
academics and
professionals with
a timely overview
and extensive

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information on
trends and
technologies in
industrial design
and
manufacturing.

Complex
Engineered
Systems
Tool Engineering
and Design
Design Tools and

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Methods in
Industrial
Engineering
Think Data
Structures
Design of Jigs,
Fixtures and Press
Tools
Proceedings of
International
Conference on
Intelligent

Manufacturing
and Automation
***The carefully
reviewed
papers in this
state-of-the-art
survey describe
a wide range of
approaches
coming from
different
strands of***

**software
engineering,
and look
forward to
future
challenges
facing this ever-
resurgent and
exacting field
of research.
Optimal Linear
Controller
Design for**

***Periodic Inputs
proposes a
general design
methodology
for linear
controllers
facing periodic
inputs which
applies to all
feedforward
control,
estimated
disturbance***

feedback control, repetitive control and feedback control. The design methodology proposed is able to reproduce and outperform the major current

design approaches, where this superior performance stems from the following properties: uncertainty on the input period is explicitly accounted for, periodic

***performance
being traded-
off against
conflicting
design
objectives and
controller
design being
translated into
a convex
optimization
problem,
guaranteeing***

***the efficient
computation of
its global
optimum. The
potential of the
design
methodology is
illustrated by
both numerical
and
experimental
results.***

Machine Tool

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***Structures,
Volume 1 deals
with
fundamental
theories and
calculation
methods for
machine tool
structures.
Experimental
investigations
into stiffness
are discussed,***

along with the application of the results to the design of machine tool structures.

Topics covered range from static and dynamic stiffness to chatter in metal cutting,

***stability in
machine tools,
and
deformations of
machine tool
structures. This
volume is
divided into
three sections
and opens with
a discussion on
stiffness
specifications***

and the effect of stiffness on the behavior of the machine under forced vibration conditions. The following chapters explore the stability of the machine structure

***against chatter;
methods of
stability
analysis; tests
and principles
of dampers;
chatter during
grinding
operations; and
stresses and
deformations of
closed box
structures***

***subjected to
bending and
shear.***

***Calculation
methods for
determining
stiffness
constants of a
structure's
individual
parts, as well
as methods for
determining the***

***resulting
stiffnesses,
modal shapes,
and their
parameters, are
also described.
The final
chapter
presents
systematic
procedures for
the analysis of
machine tool***

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**structures. This
book is
intended for
university
students,
research
workers, and
designers.
Engineering
Self-Organising
Systems
Machine Tool
Design**

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**Computer Aided
Manufacturing
Design
Principles of
Metal-Cutting
Machine Tools
Fundamentals
of Tool Design,
Fifth Edition
Transforming
Management
Using Artificial
Intelligence**

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Techniques

Traditional Machining Technology describes the fundamentals, basic elements, and operations of general-purpose metal cutting and abrasive machine tools used for the production and grinding of cylindrical and flat surfaces by turning, drilling, and reaming; shaping and planing; and milling

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processes. Special-purpose machines and operations used for thread cutting, gear cutting, and broaching processes are included along with semiautomatic, automatic, NC, and CNC machine tools; operations, tooling, mechanisms, accessories, jigs and fixtures, and machine-tool

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dynamometry are discussed. The treatment throughout the book is aimed at motivating and challenging the reader to explore technologies and economically viable solutions regarding the optimum selection of machining operations for a given task. This book will be useful to professionals, students, and companies in the

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industrial,
manufacturing,
mechanical, materials,
and production
engineering fields.
Editors Altan (Ohio State
University), Ngaile
(North Carolina
University), and Shen
(Ladish Company, Inc.)
offer this extensive
overview of the latest
developments in the
design of forging

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operations and dies.

Basic technological principles are briefly reviewed in the first two chapters.

Although the problem of tool design - involving both the selection of suitable geometry and material- has exercised the attention of metal forming engineers for as long as this industrial activity has existed, the

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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 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

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design. This, in turn, produced a considerable 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, encyclopaedic, but sufficiently deep,

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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 attempts to set, in perspective, the existing - and proven - concepts of design, to show their respective

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advantages and weaknesses and to indicate how they should be applied to the individual main forming processes of rolling, drawing, extrusion and forging.

Machining Technology
and Operations
CNC Machines
2-Volume Set
Formal Languages and
Automata Theory

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Synthetic Biology
Proceedings of the
International Conference
on Design Tools and
Methods in Industrial
Engineering, ADM 2019,
September 9 – 10, 2019,
Modena, Italy

Self-organisation, self-
regulation, self-repair,
and self-maintenance
are promising
conceptual

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approaches to deal with the ever increasing complexity of distributed interacting software and information handling systems. Self-organising applications are able to dynamically change their functionality and structure without direct user

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intervention to respond to changes in requirements and the environment. This book comprises revised and extended papers presented at the International Workshop on Engineering Self-Organising Applications, ESOA 2004, held in New

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York, NY, USA in July 2004 at AAMAS as well as invited papers from leading researchers. The papers are organized in topical sections on state of the art, synthesis and design methods, self-assembly and robots, stigmergy and related topics, and industrial

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applications.

Strategic disruptors in companies and economies, including blockchain technology, big data, and artificial intelligence, can contribute to the creation of new business opportunities, jobs, and growth. Research

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is needed on the impacts of these disruptors in Asia, as well as analyses on new business ecosystems and policy implications. Global Challenges and Strategic Disruptors in Asian Businesses and Economies presents a rich collection of chapters

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that explore and discuss the state of the art, emerging topics, challenges, and success factors in business, big data, innovation, and technology in Asia. The book explores how the internet of things, big data, and artificial intelligence can provide solutions

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for global challenges and companies. Including topics on digital economy, strategic management, and information technologies, this book is ideal for managing directors, general managers, corporate heads of firms, politicians, executives,

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entrepreneurs,
academicians,
decision makers,
policymakers,
researchers, and
students looking to
enhance their
understanding and
collaboration in
business, disruptive
innovation, and
technology in Asia.
This book presents the

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outcomes of the
International
Conference on
Intelligent
Manufacturing and
Automation (ICIMA
2018) organized by
the Departments of
Mechanical
Engineering and
Production
Engineering at
Dwarkadas J. Sanghvi

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College of
Engineering, Mumbai,
and the Indian Society
of Manufacturing
Engineers. It includes
original research and
the latest advances in
the field, focusing on
automation,
mechatronics and
robotics; CAD/CAM/
CAE/CIM/FMS in
manufacturing;

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product design and
development;
DFM/DFA/FMEA;
MEMS and
Nanotechnology;
rapid prototyping;
computational
techniques; industrial
engineering;
manufacturing
process management;
modelling and
optimization

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techniques; CRM,
MRP and ERP; green,
lean, agile and
sustainable
manufacturing;
logistics and supply
chain management;
quality assurance and
environment
protection; advanced
material processing
and characterization;
and composite and

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smart materials.

Industrial

Engineering:

Concepts,

Methodologies, Tools,
and Applications

Methodologies and
Applications

Concepts,

Methodologies, Tools,
and Applications

Instant Approach to
Software Testing

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Machine Tool
Structures
Optimal Linear
Controller Design for
Periodic Inputs

**Continuous
improvements
in technological
applications
have allowed
more
opportunities to
develop**

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