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This book takes a modern, all-inclusive look at manufacturing processes. Its coverage is strategically divided—65%

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concerned with manufacturing process technologies, 35% dealing with engineering materials and production systems.

The CIRP Encyclopedia covers the state-of-art of advanced technologies, methods and models for production,

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production engineering and Logistics. While the technological and operational aspects are in the focus, economical aspects are addressed too.

The entries for a wide variety of terms were reviewed by the CIRP-Community, representing the highest standards in

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research. Thus, the content is not only evaluated internationally on a high scientific level but also reflects very recent developments. Groover's Principles of Modern Manufacturing is designed for a first course or two-course sequence in Manufacturing at the

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junior level in  
Mechanical,  
Industrial, and  
Manufacturing  
Engineering curricula.  
As in preceding  
editions, the author's  
objective is to provide  
a treatment of  
manufacturing that is  
modern and  
quantitative. The  
book's modern  
approach is based on

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## Manufacturing Engineering Technology

balanced coverage of the basic engineering materials, the inclusion of recently developed manufacturing processes and comprehensive coverage of electronics manufacturing technologies. The quantitative focus of the text is displayed in

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its emphasis on manufacturing science and its greater use of mathematical models and quantitative end-of-chapter problems. From concept development to final production, this comprehensive text thoroughly examines the design, prototyping, and

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fabrication of engineering products and emphasizes modern developments in system modeling, analysis, and automatic control.

This reference details various management strategies, design methodologies, traditional production techniques

Fundamentals of Fluid



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Technology

Lubrication

Additive

Manufacturing

Manufacturing

Engineering and

Technology in SI

Units

Applications in

Control, Electrical

Engineering, IT and

Robotics

Principles of Modern

Manufacturing

***This work***

*Page 9/159*

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***presents the  
concepts of  
process design,  
problem  
identification,  
problem-solving  
and process  
optimization. It  
provides the  
basic tools  
needed to  
increase the  
consistency and***

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***profitability of  
manufacturing  
options,  
stressing the  
paradigms of  
improvement  
and  
emphasizing  
the hands-on  
use of tools  
furnished. The  
book introduces  
basic***

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**experimental  
design  
principles and  
avoids  
complicated  
statistical  
formulae.**

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undergraduate  
courses in  
Mechanical,  
Industrial,  
Metallurgical,**

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**and Materials  
Engineering  
Technology. For  
graduate  
courses in  
Manufacturing  
Science and  
Engineering."**  
**"Manufacturing  
Processes for  
Engineering  
Materials"**  
**addresses**

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Technology

***advances in all  
aspects of  
manufacturing,  
clearly  
presenting  
comprehensive,  
up-to-date, and  
balanced  
coverage of the  
fundamentals  
of materials  
and processes.  
With the Sixth***

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***Edition, you'll learn to properly assess the capabilities, limitations, and potential of manufacturing processes and their competitive aspects. The authors present information***

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**that motivates  
and challenges  
for**

**understanding  
and developing  
an appreciation  
of the vital  
importance of  
manufacturing  
in the modern  
global  
economy. The  
numerous**



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***examples and case studies throughout the book help to develop a perspective on the real-world applications of the topics described in the book. As in previous editions, this***

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***text maintains  
the same  
number of  
chapters while  
continuing to  
emphasize the  
interdisciplinary  
nature of all  
manufacturing  
activities,  
including the  
complex  
interactions***

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Manufacturing  
**among  
materials,  
design, and  
manufacturing  
processes. "**

**The  
mathematical  
models of  
productivity  
theory allows  
for the  
productivity  
rate of**

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***manufacturing machines and systems to be modelled with results that are validated by their actual output. This book presents the analytical approaches and methods to define maximal***

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***productivity  
rate of  
manufacturing  
machines and  
systems, based  
on the  
parameters of  
technological  
processes,  
structural  
design,  
reliability of  
mechanisms,***

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**and**  
Engineering  
**management**  
Technology  
**systems.**

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and  
Technology, SI  
Edition, 7e,  
presents a  
mostly  
qualitative  
description of  
the science,**

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Technology

***technology, and  
practice of  
manufacturing.  
This includes  
detailed  
descriptions of  
manufacturing  
processes and  
the  
manufacturing  
enterprise that  
will help  
introduce***

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***students to  
important  
concepts. With  
a total of 120  
examples and  
case studies,  
up-to-date and  
comprehensive  
coverage of all  
topics, and  
superior two-  
color graphics,  
this text***



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***provides a solid  
background for  
manufacturing  
students and  
serves as a  
valuable  
reference text  
for  
professionals.  
Teaching and  
Learning  
Experience To  
provide a***

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and learning  
experience, for  
both instructors  
and students,  
this program  
will: Apply  
Theory and/or  
Research: An  
excellent  
overview of  
manufacturing  
concepts with a***

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***balance of  
relevant  
fundamentals  
and real-world  
practices.  
Engage  
Students:  
Examples and  
industrially  
relevant case  
studies  
demonstrate  
the importance***

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***of the subject,  
offer a real-  
world  
perspective,  
and keep  
students  
interested.  
Support  
Instructors and  
Students: A  
Companion  
Website  
includes step-***

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*by-step Video  
Engineering  
Technology  
Solutions, the  
Pearson eText,  
and color  
versions of all  
figure and  
tables in the  
book.*

***Mechanical  
Processing of  
Materials***

***A Structured***

*Page 29/159*

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***Approach  
Introduction to  
Semiconductor  
Manufacturing  
Technology  
A Guide to Six  
Sigma and  
Process  
Improvement  
for  
Practitioners  
and Students***

This book covers the

*Page 30/159*

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fundamental principles  
and physical phenomena  
behind laser-based  
fabrication and  
machining processes. It  
also gives an overview of  
their existing and  
potential applications.  
With laser machining an  
emerging area in various  
applications ranging  
from bulk machining in  
metal forming to  
micromachining and

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- Power systems
- Robots
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The rapid development of technology impacts all areas. Authors of the

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Practices Have  
Become  
Important In The  
Industrial  
Environment To  
Produce  
Products For The

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Engineering  
Mankind. The  
Technology  
Basic Need Is To  
Provide  
Theoretical And  
Practical  
Knowledge Of  
Manufacturing  
Processes And  
Workshop  
Technology To  
All The

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logy, Workshop  
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Universities And  
State Technical  
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Comparisons  
Have Been  
Given In Tabular  
Form And The  
Stress Has Been

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Given On  
Figures For  
Better

Understanding  
Of Tools,  
Equipments,  
Machines And  
Manufacturing  
Setups Used In  
Various  
Manufacturing  
Shops. At The

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End Of Each  
Chapter, A  
Number Of  
Questions Have  
Been Provided  
For Testing The  
Student S  
Understanding  
About The  
Concept Of The  
Subject. The  
Whole Text Has

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Been Organized  
In 26  
Chapters. The  
First Chapter  
Presents The  
Brief  
Introduction Of  
The Subject  
With Modern  
Concepts Of  
Manufacturing  
Technology

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Needed For The  
Competitive  
Industrial  
Environment.  
Chapter 2  
Provides The  
Necessary  
Details Of Plant  
And Shop  
Layouts. General  
Industrial Safety  
Measures To Be

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Technology  
Followed In  
Various  
Manufacturing  
Shops Are  
Described In  
Detail In  
Chapter 3.  
Chapters 4 8  
Provide  
Necessary  
Details  
Regarding

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Fundamentals  
Of Ferrous  
Materials, Non-  
Ferrous  
Materials,  
Melting  
Furnaces,  
Properties And  
Testing Of  
Engineering  
Materials And  
Heat Treatment

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Manufacturing

Of Metals And  
Engineering  
Technology  
Alloys. Chapters

9 13 Describe

Various Tools,

Equipments And

Processes Used

In Various Shops

Such As

Carpentry,

Pattern Making,

Mold And Core

Making, Foundry



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Manufacturing

Shop. Special  
Engineering  
Casting Methods  
Technology

And Casting

Defects Are Also

Explained At

Length.Chapters

14 16 Provide

Basic Knowledge

Of Mechanical

Working Of

Metals.

Fundamental

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Manufacturing  
Engineering  
Technology  
Concepts  
Related To  
Forging Work  
And Other  
Mechanical  
Working  
Processes (Hot  
And Cold  
Working) Have  
Been Discussed  
At Length With  
Neat Sketches.

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Chapter 17  
Provides  
Necessary  
Details Of  
Various Welding  
And Allied  
Joining  
Processes Such  
As Gas Welding,  
Arc Welding,  
Resistance  
Welding, Solid-

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Technology

State Welding,  
Thermochemical  
Welding, Brazing  
And Soldering.  
Chapters 18 19  
Describe Sheet  
Metal And  
Fitting Work In  
Detail. Various  
Kinds Of Hand  
Tools And  
Equipments

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Technology  
Used In Sheet  
Metal And  
Fitting Shops  
Have Been  
Described Using  
Neat Sketches.  
Chapters 20 24  
Provide  
Construction  
And Operational  
Details Of  
Various Machine

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Tools Namely

Lathe, Drilling  
Machine,

Shaper, Planer,

Slotter, And

Milling Machine

With The Help

Of Neat

Diagrams.

Chapter 25

Deals With

Technique Of

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Manufacturing  
Of Products With  
Powder  
Metallurgy. The  
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The Book  
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Basic Concepts  
Of Quality  
Control And  
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Would Also  
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Reference



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dule/discipline  
topic - Physical,  
geometric,  
thermal,  
chemical and  
electrical



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balanced and  
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coverage of  
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fundamentals,  
mathematical  
analysis, and  
traditional as  
well as

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advanced  
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edited for  
improved  
readability and  
clarity, this book  
is written mainly

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for students in  
mechanical,  
industrial, and  
metallurgical  
and materials  
engineering  
programs. The  
text continually  
emphasizes the  
important  
interactions  
among a wide

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Technology, and  
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Flow. This up-to-  
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semiconductor  
manufacturing  
processes takes  
into  
consideration the  
rapid**



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**development of  
the industry's  
technology. It**

**thoroughly  
describes the  
complicated and  
new IC chip  
fabrication  
processes in  
detail with  
minimum  
mathematics,**

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**Advanced technologies are covered along with older ones to assist students in understanding the development processes from a historic point of view.**

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**Mikell Groover,**  
author of the  
leading text in  
manufacturing  
processes, has  
developed  
**Introduction to  
Manufacturing  
Processes as a  
more navigable  
and student-  
friendly text**

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**paired with a  
strong suite of  
additional tools  
and resources  
online to help  
instructors drive  
positive student  
outcomes.  
Focusing mainly  
on processes,  
tailoring down  
the typical**

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**coverage of both  
materials and  
systems. The**

**emphasis on  
manufacturing**

**science and  
mathematical**

**modeling of  
processes is an  
important**

**attribute of the  
new book. Real**

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**world/design  
case studies are  
also integrated  
with  
fundamentals -  
process videos  
provide students  
with a chance to  
experience being  
'on the floor' in a  
manufacturing  
facility, followed**

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**by case studies  
that provide  
individual  
students or  
groups of  
students to dig  
into larger/more  
design-oriented  
problems.  
Process Planning  
covers the  
selection of**

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**processes,  
equipment,  
tooling and the  
sequencing of  
operations  
required to  
transform a  
chosen raw  
material into a  
finished product.  
Initial chapters  
review materials**



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**and processes  
for  
manufacturing  
and are followed  
by chapters  
detailing the core  
activities  
involved in  
process  
planning, from  
drawing  
interpretation to**

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**preparing the  
final process  
plan. The concept  
of maximising or  
'adding value'  
runs throughout  
the book and is  
supported with  
activities.**

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teaching and  
learning**

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**resource, each  
chapter begins  
with learning  
objectives,  
explores the  
theory behind  
process  
planning, and  
sets it in a 'real-  
life' context  
through the use  
of case studies**

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and examples.

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corresponding

Engineering

Technology

**British**

**standards). This**

**is a core**

**textbook, aimed**

**at undergraduate**

**students of**

**manufacturing**

**engineering,**

**mechanical**

**engineering with**

**manufacturing**

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materials  
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examples from  
industry to help  
provide an easy  
guide to a  
complex subject  
Fills a gap in the  
market for which**

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**there are  
currently no  
suitable texts  
Learning aims  
and objectives  
are provided at  
the beginning of  
each chapter - a  
user-friendly  
method to  
consolidate  
learning**

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during the early conceptual stages of design have a great effect on subsequent stages. In fact, quite often more than 70% of the manufacturing cost of a product is determined at this conceptual stage, yet manufacturing is not involved. Through

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equipment are either

injection molded,

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(occasionally)

forged. This book

emphasizes these

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implemented processes. In addition to chapters on these processes, the book touches upon material process selection, general guidelines for determining whether several components should be combined into a

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single component or  
not,

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technologies are the

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precision production

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automotive and  
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knowledge of  
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manufacturing in  
these technologies on  
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research. The theory

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of cutting and  
abrasive processes  
and the knowledge  
about their  
application in  
industrial practice  
are a prerequisite for  
the studies of  
manufacturing  
science and an  
important part of the  
curriculum of the

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master study in  
German mechanical  
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basis of this book is  
our lecture “Basics  
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"Manufacturing  
Processes and  
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George Tlusty  
describes and  
explains existing  
production processes  
and machinery.

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More importantly, it uses the powerful analytical tools of machine science (heat transfer, vibrations, control theory) and applies them to the solution of manufacturing problems. There is more emphasis on the analytical

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discussing the  
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machinery, its  
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processes early in the

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product development  
cycle. Building on  
content from the  
authors' earlier  
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Selection guide, this  
expanded handbook  
begins with the  
challenges and  
benefits of  
identifying  
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processes in the design phase and appropriate strategies for process selection. The bulk of the book is then dedicated to concise coverage of different manufacturing processes, providing a quick reference guide for easy

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Conceptually, additive manufacturing, or industrial 3D printing, is a way to build parts without using any part-specific tooling or dies from the computer-aided design (CAD) file of the part. Today, most engineered

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devices are 3D printed first to check their shape, size, and functionality before large-scale production. In addition, as the cost of 3D printers has come down significantly, and the printers' reliability and part quality have improved,



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schools and universities have been investing in 3D printers to experience, explore, and innovate with these fascinating additive manufacturing technologies.

Additive Manufacturing highlights the latest

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platform By showing  
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technologies are  
currently used,

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Manufacturing not only provides a valuable reference for veteran researchers and those entering this exciting field, but also encourages innovation in future additive manufacturing applications.

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and surface  
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individual processes  
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