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The increasing use of powder metallurgy techniques to make an almost infinite variety of materials and products places greater emphasis on utilization of

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sophisticated experimental techniques. Usually research and development efforts initiate the use of newly developed equipment and analytical procedures. Indeed, the contents of this book are strongly linked to

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research endeavors, in both the academic and industrial worlds. However, this volume can serve a much needed function in industrial applied powder metallurgy. Although many researchers will find the contents

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*of great value, the technical
personnel more involved with
production, quality control,
customer services and product
design now have at their dispo
sal a means to learn about the
potential uses of several very*

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*important techniques. With
today's "knowledge explosion"
the present set of papers greatly
facilitates the comprehension and
adoption of new procedures. If
powder metallurgy is to continue
its rapid rate of growth in virtually*

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all segments of industry, then the transition of modern equipment and procedures from tools of research and development laboratories to everyday plant operations and applications must be hastened. The editors hope

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*that this volume aids in this
process, as well as assisting
students and researchers by
providing a ready source of up-to-
date useful information.*

*Sintering is a method for
manufacturing components from*

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ceramic or metal powders by heating the powder until the particles adhere to form the component required. The resulting products are characterised by an enhanced density and strength, and are

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*used in a wide range of
industries. Sintering of advanced
materials: fundamentals and
processes reviews important
developments in this technology
and its applications Part one
discusses the fundamentals of*

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*sintering with chapters on topics
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sintering, kinetics and
mechanisms of densification, the
kinetics of microstructural change
and liquid phase sintering. Part
two reviews advanced sintering*

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processes including atmospheric sintering, vacuum sintering, microwave sintering, field/current assisted sintering and photonic sintering. Finally, Part three covers sintering of aluminium, titanium and their alloys,

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*reference for researchers and
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*processing of ceramics, powder
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sectors as electronics,
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variety of sintering methods
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liquid phase and microwave
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Metallurgy

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*Powder metallurgy (PM) is a popular
metal forming technology used to*

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produce dense and precision components. Different powder and component forming routes can be used to create an end product with specific properties for a particular application or industry. Advances in powder metallurgy explores a range of materials and techniques used for

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*powder metallurgy and the use of
this technology across a variety of
application areas. Part one discusses
the forming and shaping of metal
powders and includes chapters on
atomisation techniques, electrolysis
and plasma synthesis of metallic
nanopowders. Part two goes on to*

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Based Composite Powders highlight specific materials and their properties including advanced powdered steel alloys, porous metals and titanium alloys. Part three reviews the manufacture and densification of PM components and explores joining techniques, process optimisation in powder component

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*manufacturing and non-destructive
evaluation of PM parts. Finally, part
four focusses on the applications of
PM in the automotive industry and
the use of PM in the production of
cutting tools and biomaterials.*

*Advances in powder metallurgy is a
standard reference for structural*

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*engineers and component
manufacturers in the metal forming
industry, professionals working in
industries that use PM components
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powdered steel alloys, porous metals
and titanium alloys Reviews the
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components and explores joining
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Parts 6-9

Parts 9 - 13

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The large number, and high quality, of the papers making up this collection reflect the continuing vigor of the powder-metallurgy industry and associated

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research all over the world. The emergence of such new fields as nano-materials, cellular materials and process modeling by computer simulation is very

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evident, while
traditional fields such
as compaction and
sintering are also being
tackled anew using more
sophisticated concepts
and tools.26

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Globalization of the
economic structure
presents challenging
opportunities for powder
metallurgy, and there is
an increasing demand for
high-productivity, low-

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cost, high quality, new products, together with reduced pollution. Also described herein are many new materials, concepts and tools that can be used in powder

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metallurgy. The
collection shows the
need to expand the field
of PM and link it to
other related fields,
such as ceramics,
polymers, and

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biomaterials: after all,
ceramics for example are
just metal powders in
oxide-, carbide- or
nitride- form. The
contents are divided
into the chapters:

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PM Materials for

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economical and
environmental points of
view, Powder metallurgy
process shows remarkable
advantages in production
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3-dimensional near net
shape forming methods.

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process can be applied
to not only metal

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materials but also
ceramics and organic
materials, which both
are employed as
structural and
electrical products.

Author contributions to

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Powder metallurgy
present excellent and
significantly important
research topics to
evaluate various
properties and
performance of P/M

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materials for applying
these materials as
actual components. In
particular, the life
estimation of P/M
ferrous materials by
sliding contact fatigue

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test and tribological
performance evaluation
of P/M semi-metallic
materials are focused
and introduced in this
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**Powder Metallurgy Diamond
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Diamond-impregnated tools are
used increasingly in industries
where wear-resistant drills or
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cobalt matrix in which the
diamond is embedded is

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sintering, techniques commonly
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the process is complex and
intricate. This book provides a
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leading to the development of
superior products. This book
will... 1. Clarify the science and
properties involved in powder
metallurgy and the production of
diamond tools 2. Explain the
manufacturing process 3. Help

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**improve your machining and
finishing techniques, leading to
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tool use and wear, helping you
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you to consider new
applications, optimising your**

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Ferrous powder metallurgy (PM)
makes up the majority of powder
metallurgy products with regard to
tonnage. Improving performance is

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the main trend for pressed and sintered parts, in particular the introduction of cost-effective alloy elements such as Cr and Mn.

Furthermore, much can be gained in ferrous PM by elaborate secondary operations. In metal injection

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moulding (MIM) products, there is a clear trend towards increasingly complex shapes and microsized parts. PM tool steels offer a much finer and fully isotropic microstructure compared to their wrought counterparts and the

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carbide content may be much
higher, resulting in excellent
application properties.

Titanium Powder Metallurgy
contains the most comprehensive
and authoritative information for,
and understanding of, all key issues

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of titanium powder metallurgy (Ti
PM). It summarizes the past,
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reviews the present and discusses
the future of the science and
technology of Ti PM while
providing the world titanium
community with a unique and

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comprehensive book covering all
important aspects of titanium
powder metallurgy, including
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processing, green shape formation,
consolidation, property evaluation,
current industrial applications and

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future developments. It documents the fundamental understanding and technological developments achieved since 1937 and demonstrates why powder metallurgy now offers a cost-effective approach to the near net or

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powder metallurgy Each chapter is delivered by the most knowledgeable expert on the topic, half from industry and half from academia, including several pioneers in the field, representing our current knowledge base of Ti PM. Includes

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In engineering, there are
often situations in which
the material of the main

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component is unable to sustain long life or protect itself from adverse operating environments.

Moreover, in some cases, different material properties such as anti-friction and wear, anti-

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corrosive, thermal
resistive, super
hydrophobic, etc. are
required as per the
operating conditions. If
those bulk components are
made of such materials and
possess those properties,

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the cost will be very high.

In such cases, a practical solution is surface coating, which serves as a protective barrier to the bulk material from the adverse environment. In the last decade, with enormous

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effort, researchers and scientists have developed suitable materials to overcome those unfavorable operating conditions, and they have used advanced deposition techniques to enhance the adhesion and

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surface texturing of the coatings. Advanced Surface Coating Techniques for Modern Industrial Applications is a highly sought reference source that compiles the recent research trends in these new and

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application. The book is ideal for engineers, scientists, researchers, academicians, and students working in fields like material science, mechanical engineering, tribology, chemical and corrosion

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and aerospace engineering.

Advances in Particulate
Engineering
Materials introduces the
approaches and principles
associated with basic powder
production, and details the

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most critical, state-of-the-art advancements in the area of materials processing and particulate materials. As the demands of modern technology increase, particulate materials facilitates the production

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of numerous advanced materials that may be utilized in aerospace, automotive, defense, chemical, and medical industries. Provides in-depth coverage of some of the most exciting and

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processing and the materials
aspect of some of the
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Engineering, May 14-17,
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The book presents recent advances in

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the following fields: Theoretical aspects, characterization and applications of powder and PM products. New developments in powder production and processing. Functional Materials. Nanomaterials and Nanotechnologies. Health, Safety and

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Metal injection molding combines the
most useful characteristics of powder
metallurgy and plastic injection
molding to facilitate the production of
small, complex-shaped metal

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components with outstanding
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Edition provides an authoritative guide
to this important technology and its
applications. Building upon the success
of the first edition, this new edition

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includes the latest developments in the field and expands upon specific processing technologies. Part one discusses the fundamentals of the metal injection molding process with chapters on topics such as component design, important powder

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optimization, debinding, and sintering.
Engineering
Part two provides a detailed review of
quality issues, including feedstock
characterisation, modeling and
simulation, methods to qualify a MIM

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process, common defects and carbon content control. Special metal injection molding processes are the focus of part three, which provides comprehensive coverage of micro components, two material/two color structures, and porous metal techniques. Finally, part

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four explores metal injection molding of particular materials, and has been expanded to include super alloys and precious metals. With its distinguished editor and expert team of international contributors, the Handbook of Metal Injection Molding is an essential guide

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for all those involved in the high-volume manufacture of small precision parts, across a wide range of high-tech industries such as microelectronics, biomedical and aerospace engineering. Provides an authoritative guide to metal injection molding and its

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applications Discusses the
fundamentals of the metal injection
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such as component design, important
powder characteristics, compound
manufacture, tooling design, molding
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principles of warm
compaction and technical
aspects of the process. The
green and sintered
properties of warm
compacted parts are
discussed and compared

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with conventionally (cold)
produced compacts. The
applications of the process
for ferrous and non-ferrous
PM parts are presented and
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Annotation Examines the factors that contribute to overall steel deformation problems. The 27 articles address the effect of materials and processing, the

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measurement and prediction of residual stress and distortion, and residual stress formation in the shaping of materials, during hardening processes, and during manufacturing processes. Some of the topics are the stability and relaxation behavior of macro and

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micro residual stresses, stress determination in coatings, the effects of process equipment design, the application of metallo- thermo-mechanic to quenching, inducing compressive stresses through controlled shot peening, and the origin and assessment of residual

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stresses during welding and brazing.*

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*This book contains 25 papers from
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address cold compaction, sintering, high-temperature compaction, processing modeling, and processes and materials. The integration of mechanical and physical aspects of P/M processes is emphasized.

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useful to individuals in PM R&D
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