

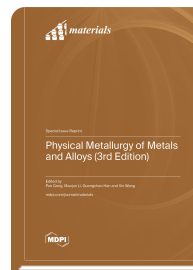
Special Issue Reprint

Physical Metallurgy of Metals and Alloys (3rd Edition)

www.mdpi.com/books/reprint/11592

Edited by
Pan Gong
Maojun Li
Guangchao Han
Xin Wang

ISBN 978-3-7258-5007-5 (Hardback)
ISBN 978-3-7258-5008-2 (PDF)



The following Reprint focuses on all of the above classes of materials and the areas of physical metallurgy, process metallurgy, materials science, and processing techniques. Specific areas of interest also include titanium-/nickel-based superalloys, intermetallics, advanced metallic materials, nanomaterials, metal matrix composites, functional materials, related synthesis and processing techniques, finite element modeling, statistical analysis, physical/mechanical property characterization, experimental validation, and other relevant phenomena.

Physical metallurgy is important in the design and optimization of advanced materials with superior physical and mechanical properties over their service lives via microstructural modifications and processing techniques. The goal of this Reprint on the physical metallurgy of metals and alloys is to bring together information on the recent progress, novel technologies, and advanced equipment described in our works on the design and development of advanced metals and alloys, and provide guidelines/benchmarks for further research in related areas. Composites, intermetallics, and nanomaterials, as well as functional materials, will also be included.

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.