



# Physical Metallurgy, Fifth Edition

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- Exhaustively synthesizes the pertinent, contemporary developments within physical metallurgy so scientists have authoritative information at their fingertips
- Replaces existing articles and monographs with a single, complete solution
- Enables metallurgists to predict changes and create novel alloys and processes

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### Editorial Review

#### Review

*How does one review The Bible? Editors R.W. Cahn and P. Haasen have succeeded in producing the Physical Metallurgy equivalent. This is the third revision of the famous work, and it represents a major extension to the previous edition with at least 50% more material packed into three very substantial volumes.... --Contemporary Physics Considering the exactness and extent of the contents, this work represents an advanced textbook, and, at the same time, a suitable handbook for University. --Metallic Materials*

#### From the Back Cover

The **Physical Metallurgy** series is an authoritative reference tool, providing a complete knowledge set in physical metallurgy, which is the largest discipline in the fields of Materials Science and Materials Engineering. The fifth edition of this series is the latest product in a prestigious and famous family formerly edited by Robert Cahn (University of Cambridge) and Peter Haasen (Universität Göttingen), and in the present edition by Professor David Laughlin and Professor Kazuhiro Hono. This series describes and explains most aspects of physical metallurgy across the full breadth with considerable depth. Each article has been either rewritten by new authors, or thoroughly revised and expanded, either by the 4th edition authors alone or jointly with new co-authors.

#### Key Features

Includes five chapters on new topics, including the Physical Metallurgy of Light Alloys, The Physical Metallurgy of Titanium Alloys, Atom Probe Field Ion Microscopy, Computational Metallurgy, and Orientational Imaging Microscopy **About the Editors** **David Laughlin** is the ALCOA Professor of Physical Metallurgy, Materials Science and Engineering Department, Carnegie Mellon University, Pittsburgh, USA. **Kazuhiro Hono** is NIMS Fellow, Director of Magnetic Materials Unit, National Institute for Materials Science, and Professor of Materials Science, University of Tsukuba, Japan. **About the Author** David E. Laughlin is the ALCOA Professor of Physical Metallurgy in the Department of Materials Science and Engineering at Carnegie Mellon University, where he has taught since 1974. He also holds a courtesy appointment in the Electrical and Computer Engineering Department at CMU. He is the Principal Editor of the Metallurgical and Materials Transactions family of journals of ASM International and TMS. His research has centered on the investigation of the structure of materials by means of transmission electron microscopy and x-ray diffraction. He has studied various diffusional phase transformations by detailed analysis of their micro-structure as well as electron diffraction patterns. For the past 25 years he has focused on the investigation of the magnetic properties and microstructure of soft magnets (HITPERM), hard magnets (FePt and CoPt) and magnetic thin films for recording media. He co-chairs the Data Storage Systems Center Magnetic Recording Group. He has taught courses on physical metallurgy, electron microscopy, diffraction techniques, thermodynamics, crystallography, magnetic materials and phase transformations. He is a director of both the X-ray Central Facility and the Electron Optics Central Facility of the Materials Science and Engineering Department of Carnegie Mellon University. He has more than 400 technical publications in the field of phase transformations, physical metallurgy and magnetic materials, and has edited or co-edited eight books and has ten U.S. Patents in the field of magnetic recording. He was elected as an Honorary member of

the AIME and is a Fellow of ASM and TMS.

Kazuhiro Hono is NIMS Fellow, Director of Magnetic Materials Unit, National Institute for Materials Science, Tsukuba, Japan Users Review**From reader reviews:**

Milton Jones:This Physical Metallurgy, Fifth Edition book is simply not ordinary book, you have it then the world is in your hands. The benefit you have by reading this book is definitely information inside this reserve incredible fresh, you will get details which is getting deeper you actually read a lot of information you will get. This Physical Metallurgy, Fifth Edition without we comprehend teach the one who reading through it become critical in considering and analyzing. Don't end up being worry Physical Metallurgy, Fifth Edition can bring when you are and not make your carrier space or bookshelves' turn out to be full because you can have it within your lovely laptop even cellphone. This Physical Metallurgy, Fifth Edition having great arrangement in word and also layout, so you will not really feel uninterested in reading.

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