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Section 25: Materials of Construction
He is co-author of the book 'Ceramic Microstructures' with W E Lee, a winner of the Rosenhain Medal of the IoM 3 and has recently finished his term as President of the Royal Microscopical Society.

Professor W Mark Rainforth
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I joined the Department in January
2016. Prior to my appointment, I was
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University in the USA for over ...

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mental and physical fatigue is the top issue affecting them negatively, a third of Canadians (37%) feel unsafe to talk about mental health at work. Lack of trust in their employer was among the ...

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Designed for students who have already taken an introductory course in

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metallurgy or materials science, this advanced text describes how structures control the mechanical properties of metals.

Physical metallurgy is one of the main fields of metallurgical science dealing with the development of the microstructure of metals in order to achieve desirable properties required in technological applications. Physical Metallurgy: Principles and Design focuses on the processing–structure–properties triangle as it applies to metals and alloys. It introduces the fundamental principles of physical metallurgy and the design methodologies for alloys and processing. The first part of the book discusses the structure and change of structure through phase transformations. The latter part of the

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books deals with plastic deformation, strengthening mechanisms, and mechanical properties as they relate to structure. The book also includes a chapter on physical metallurgy of steels and concludes by discussing the computational tools, involving computational thermodynamics and kinetics, to perform alloy and process design.

- * Covers all aspects of physical metallurgy and behavior of metals and alloys.
- * Presents the principles on which metallurgy is based.
- * Concepts such as heat affected zone and structure-property relationships are covered.
- * Principles of casting are clearly outlined in the chapter on solidification.
- * Advanced treatment on physical metallurgy provides specialized information on metals.

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An introduction to steel products for industry professionals

Relating theory with practice to provide a holistic understanding of the subject and enable critical thinking, this book covers fundamentals of physical metallurgy, materials science, microstructural development, ferrous and nonferrous alloys, mechanical metallurgy, fracture mechanics, thermal processing, surface engineering, and applications. This textbook covers principles, applications, and 200 worked examples/calculations along with 70 MCQs with answers. These attractive features render this volume suitable for recommendation as a textbook of physical metallurgy for undergraduate as well as Master level programs in

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Metallurgy, Physics, Materials Science, and Mechanical Engineering. The text offers in-depth treatment of design against failure to help readers develop the skill of designing materials and components against failure. The book also includes design problems on corrosion prevention and heat treatments for aerospace and automotive applications. Important materials properties data are provided wherever applicable. Aimed at engineering students and practicing engineers, this text provides readers with a deep understanding of the basics and a practical view of the discipline of metallurgy/materials technology.

Magnesium and magnesium alloys offer a wealth of valuable properties, making them of great interest for use

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across a wide range of fields. This has led to extensive research focused on understanding the properties of magnesium and how these can be controlled during processing.

Fundamentals of magnesium alloy metallurgy presents an authoritative overview of all aspects of magnesium alloy metallurgy, including physical metallurgy, deformation, corrosion and applications. Beginning with an introduction to the primary production of magnesium, the book goes on to discuss physical metallurgy of magnesium and thermodynamic properties of magnesium alloys. Further chapters focus on understanding precipitation processes of magnesium alloys, alloying behaviour of magnesium, and alloy design. The formation, corrosion and surface finishing of magnesium and its

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alloys are reviewed, before
Fundamentals of magnesium alloy
metallurgy concludes by exploring
applications across a range of fields.
Aerospace, automotive and other
structural applications of magnesium
are considered, followed by
magnesium-based metal matrix
composites and the use of magnesium
in medical applications. With its
distinguished editors and international
team of expert contributors,
Fundamentals of magnesium alloy
metallurgy is a comprehensive tool for
all those involved in the production
and application of magnesium and its
alloys, including manufacturers,
welders, heat-treatment and coating
companies, engineers, metallurgists,
researchers, designers and scientists
working with these important
materials. Overviews all aspects of

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magnesium alloy metallurgy Discusses physical metallurgy of magnesium and thermodynamic properties of magnesium alloys Reviews the formation, corrosion and surface finishing of magnesium and its alloys

This fifth edition of the highly regarded family of titles that first published in 1965 is now a three-volume set and over 3,000 pages. All chapters have been revised and expanded, either by the fourth edition authors alone or jointly with new co-authors. Chapters have been added on the physical metallurgy of light alloys, the physical metallurgy of titanium alloys, atom probe field ion microscopy, computational metallurgy, and orientational imaging microscopy. The books incorporate the latest experimental research results and

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theoretical insights. Several thousand citations to the research and review literature are included. 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

This well-established book, now in its Third Edition, presents the principles and applications of engineering metals and alloys in a highly readable form. This new edition retains all the basic topics covered in earlier editions such as phase diagrams, phase transformations, heat treatment of steels and nonferrous alloys, shape

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memory alloys, solidification, fatigue, fracture and corrosion, as well as applications of engineering alloys. A new chapter on 'Nanomaterials' has been added (Chapter 8). The field of nano-materials is interdisciplinary in nature, covering many disciplines including physical metallurgy. Intended as a text for undergraduate courses in Metallurgical and Materials Engineering, the book is also suitable for students preparing for associate membership examination of the Indian Institute of Metals (AMIIM) and other professional examinations like AMIE.

Physical Metallurgy and Advanced Materials is the latest edition of the classic book previously published as Modern Physical Metallurgy and

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Materials Engineering. Fully revised and expanded, this new edition is developed from its predecessor by including detailed coverage of the latest topics in metallurgy and material science. It emphasizes the science, production and applications of engineering materials and is suitable for all post-introductory materials science courses. This book provides coverage of new materials characterization techniques, including scanning tunneling microscopy (STM), atomic force microscopy (AFM), and nanoindentation. It also boasts an updated coverage of sports materials, biomaterials and nanomaterials. Other topics range from atoms and atomic arrangements to phase equilibria and structure; crystal defects; characterization and analysis of materials; and physical and

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mechanical properties of materials.

The chapters also examine the properties of materials such as advanced alloys, ceramics, glass, polymers, plastics, and composites. The text is easy to navigate with contents split into logical groupings: fundamentals, metals and alloys, nonmetals, processing and applications. It includes detailed worked examples with real-world applications, along with a rich pedagogy comprised of extensive homework exercises, lecture slides and full online solutions manual (coming). Each chapter ends with a set of questions to enable readers to apply the scientific concepts presented, as well as to emphasize important material properties. Physical Metallurgy and Advanced Materials is intended for senior undergraduates

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and graduate students taking courses in metallurgy, materials science, physical metallurgy, mechanical engineering, biomedical engineering, physics, manufacturing engineering and related courses. Renowned coverage of metals and alloys, plus other materials classes including ceramics and polymers. Updated coverage of sports materials, biomaterials and nanomaterials. Covers new materials characterization techniques, including scanning tunneling microscopy (STM), atomic force microscopy (AFM), and nanoindentation. Easy to navigate with contents split into logical groupings: fundamentals, metals and alloys, nonmetals, processing and applications. Detailed worked examples with real-world applications. Rich pedagogy includes extensive

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