

Magnetic materials for technical applications^{a)}

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The time evolution of the physical properties of hard and soft magnetic materials is shortly reviewed. Then, we analyse the magnetic properties of $\text{Nd}_2\text{Fe}_{14}\text{B}$ - Co - Nb_2B_{10} nanocomposites, Nd-Fe-Co-Al-B hard magnetic phases and magnets as well as of $\text{Nd}_2\text{Fe}_{14}\text{B}$ - $\text{M}_2\text{Cu}_2\text{B}_{10}$ ($\text{M}=\text{Ni}$, Cu and Al) alloys. Some data on soft magnetic materials are also given. Finally, the magnetocaloric properties of ternary Gd-Co-B compounds are reported.

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Keywords: Nanocrystalline alloys, Hard and soft magnetic materials, Magnetocaloric effect

1. Introduction

The magnetic materials have a wide range of applications being the main components in a large varieties of devices used in technical and social life. The increase of their performances was the main task of researches performed at the international level. New hard, semi-hard and soft magnetic materials were developed. The relative weight of magnetic materials, manufactured in the recent years are plotted in Fig. 1. High performance materials, recently elaborated, grow continuously as importance, particularly those in information technology. In addition, magnetocaloric effects showed by some systems, are now used in magnetic refrigeration technology.

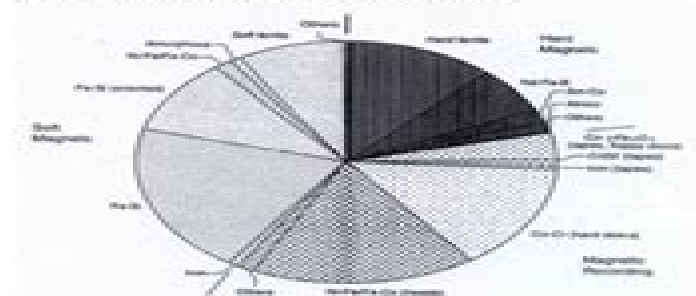


Fig.1 The relative weight of magnetic materials manufactured at the world scale.

The evolution of the coercive fields for hard and soft

magnetic materials, during last 200 years, is shown in Fig.2. Hard magnetic materials with coercivities higher than 10^7 A/m were now obtained, particularly by using rare-earth-transition metal compounds. The elaboration of high energy permanent magnets started in 1967 year, when SmCo_5 -type magnets were obtained and continued to discovery in 1984 of Nd-Fe-B magnets. The relative inexpensive nanocomposites $\text{Nd}_2\text{Fe}_{14}\text{B}/\alpha\text{-Fe}$ or $\text{Nd}_2\text{Fe}_{14}\text{B}/\text{Fe}_3\text{B}$ were then elaborated.

New soft magnetic materials were obtained with very low coercive fields and low magnetic losses as well as magnetocaloric alloys which now are used in refrigeration technology.

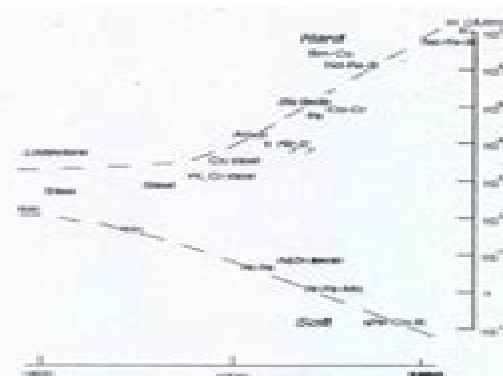


Fig.2 The time evolution of the coercive fields for hard and soft magnetic materials.

^{a)} based on lecture given at MATEIN International Conference

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**Sanjeev Singh Yadav,Rajat
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Applied Materials Science Deborah D. L. Chung, 2001-06-13 Materials are the foundation of technology As such most universities provide engineering undergraduates with the fundamental concepts of materials science including crystal structures imperfections phase diagrams materials processing and materials properties Few however offer the practical applications oriented background that their students need to succeed in industry Applied Materials Science Applications of Engineering Materials in Structural Electronics Thermal and Other Industries fills that gap From a cross disciplinary perspective that reflects both the multifunctionality of many materials and the wide scope industrial needs the author examines the practical applications of metal ceramic polymer cement carbon and composite materials across a broad range of industries The topics addressed include electronic packaging smart materials thermal management nondestructive evaluation and materials development The text is clear coherent and tutorial in style includes numerous up to date references and provides background material in a series of appendices Unique in its breadth of coverage of both materials and their applications Applied Materials Science is both scientifically rich and technologically relevant If you work or teach those that aspire to work in an engineering capacity you will find no text or reference that better prepares its readers for real world applications of engineering materials

Principles of Materials Science and Engineering William Fortune Smith, 1990 This new edition provides a broad overview of the structure properties and processing of engineering materials Most importantly up to date coverage dealing with materials used in today s engineering environment is included The general organization of the text logically fits materials sciences courses and is especially helpful as an early introduction to electrical properties This edition boasts many new illustrations which will help students visualise and reinforce the concepts presented

Materials Science and Engineering Information Reso Management Association, 2016-12-30 *Materials Science and Technology for Advanced Applications* Donald R. Mash, 2012-06-01 Contributing Authors Include Irving Silver Charles J Thelen C M Frey And Many Others

Fundamentals of Materials Science for Technologists Larry Horath, 2017-03-17 Horath effectively combines principles and theory with practical applications to provide a solid understanding of the characteristics of materials used in today s machines devices structures and consumer products Straightforward nonmathematical coverage uncovers the basic premises of materials science and mechanical behavior as they relate to all types of materials ferrous and nonferrous metals polymers and elastomers wood and wood products ceramics and glass cement concrete and asphalt composites adhesives and coatings and fuels and lubricants An examination of the chemistry of materials illuminates the common properties important to material applications and how they may be created reduced and altered for the design and development of additional materials Clearly written with an applied problem solving approach the Second Edition is a sound introduction to materials technology Strong coverage of the destructive and nondestructive evaluation of material properties builds the groundwork for inspection processes and testing techniques such as tensile creep compression shear bend or

flexure hardness impact and fatigue Laboratory assignments support the text with numerous hands on exercises that develop skills in industry sanctioned testing procedures data collection reporting and graphing and determining additional appropriate tests Additional supplementary resource materials for instructors and students are available for download here

Introduction to Materials Science and Engineering Yip-Wah Chung, 2006-12-13 Our civilization owes its most significant milestones to our use of materials Metals gave us better agriculture and eventually the industrial revolution silicon gave us the digital revolution and we re just beginning to see what carbon nanotubes will give us Taking a fresh interdisciplinary look at the field *Introduction to Materials Science and Engineering* emphasizes the importance of materials to engineering applications and builds the basis needed to select modify or create materials to meet specific criteria The most outstanding feature of this text is the author s unique and engaging application oriented approach Beginning each chapter with a real life example an experiment or several interesting facts Yip Wah Chung wields an expertly crafted treatment with which he entertains and motivates as much as he informs and educates He links the discipline to the life sciences and includes modern developments such as nanomaterials polymers and thin films while working systematically from atomic bonding and analytical methods to crystalline electronic mechanical and magnetic properties as well as ceramics corrosion and phase diagrams Woven among the interesting examples stories and Chinese folk tales is a rigorous yet approachable mathematical and theoretical treatise This makes *Introduction to Materials Science and Engineering* an effective tool for anyone needing a strong background in materials science for a broad variety of applications

Advancements in Materials Science and Engineering Zohair Sarajan, 2010-06-18 In recent years materials science has become one of the most important and exciting forefront fields in Engineering It shows great promise for providing us in the near future with many breakthroughs that will change the direction of technological advances in a wide range of applications To facilitate the timely widespread utilization of this science it is important to have available an overall summary and commentary on this subject which is sufficiently detailed to provide a broad coverage and insight into the area and at the same time is sufficiently readable and thorough so that it can reach a wide audience of those who have a need to know the nature and prospects for the field Because of the rapid pace of development of the subject and its interdisciplinary nature a truly comprehensive coverage does not seem feasible The topics presented here were chosen based on the maturity of understanding of the subjects their potential for applications or the number of already existing applications Technical managers evaluators and those who must make funding decisions will need to understand a wide variety of disciplines This book was originally written to be an introduction to Materials Science Technical English Texts specifically designed for classroom use in universities Different kinds of texts are included for those who wish to pursue variety documents in this field also it can be used as a text for an undergraduate course on materials science Many of the chapters contain introductions to the basic concepts hence the various chapters are self contained and may be read independently of each other My goal in this book is to describe what materials science will

mean in practical terms so that more people can think more realistically about the future *Materials Science and Engineering: Materials and their Application* Masaru Tanaka,2022-11-28 Selected peer reviewed extended articles based on abstracts presented at the 2022 3rd International Conference on Materials Science and Engineering IC MSE 2022 Aggregated Book *Materials Science and Engineering* Information Resources Management Association,2017 Presents the latest academic material on investigations technologies and techniques pertaining to analysing the synthesis and design of new materials This publication offers extensive coverage on a variety of crucial topics such as nanomaterials biomaterials and relevant computational methods **Computational Technologies in Materials Science** Shubham Tayal,Parveen Singla,Ashutosh Nandi,J. Paulo Davim,2021-10 This book encourages materials researchers and academics to develop novel theories and sustainable computational techniques and explores the potential for computational intelligence to replace traditional materials research Materials Science and Engineering Abbas Hamrang,Gennady E. Zaikov,A. K. Haghi,E. Klodzinska,2018-10-03 This book has an important role in advancing non classical materials on the macro and nanoscale The book provides original theoretical and important experimental results Some research uses non routine methodologies often unfamiliar to some readers Furthermore papers on novel applications of more familiar experimental techniques and analyses o Materials Science and Technology for Advanced Applications, Volume II ,1964 Materials Science and Engineering Sanjeev Singh Yadav,Rajat Dhiman,Rupender M. Anklekar,2024-04-17 This book provides a holistic picture and a clear understanding of the fundamentals of materials science and engineering written in simple language with practical examples It will be helpful for students of various fields of engineering such as mechanical metallurgical civil electrical electronic aerospace and chemical engineering Students of physics and chemistry will also find this book valuable due to its exploration of the fundamentals of materials science Technical professionals like diploma students technicians and even non degree technical professionals will also find this book immensely useful Materials Science and Technology ,1962 **Advanced Materials Engineering Fundamentals** Richard Skiba,2025-01-14 Advanced Materials Engineering Fundamentals provides a guide to advanced materials engineering exploring the science technologies and applications that shape the field It is designed for a wide audience including students professionals researchers and entrepreneurs offering them the knowledge to understand and innovate with advanced materials across various industries The initial chapters introduce foundational concepts covering atomic and molecular structures mechanical and thermal properties and the historical evolution of materials science These sections lay a solid groundwork for understanding advanced materials pivotal role in industries like aerospace automotive construction and electronics making them particularly useful for students and early career professionals Later chapters focus on specific categories of advanced materials including composites nanomaterials and bioplastics These sections detail synthesis methods properties and applications providing insights for researchers and professionals engaged in material design and innovation The chapters on bioplastics and sustainable materials are especially

relevant for those working on eco friendly solutions The book also addresses critical techniques for material testing characterization and development explaining methods like XRD SEM and TEM This content is essential for laboratory professionals and researchers utilizing advanced equipment to analyse and optimize material properties Sustainability is a central theme with discussions on lifecycle analysis recycling and reducing the carbon footprint of material production These chapters make the book a valuable resource for academia and industry professionals committed to environmentally responsible material innovation With sections on computational materials engineering and emerging trends like self healing materials quantum materials and bio inspired designs the book remains at the forefront of technological advancements It concludes with practical career guidance skills development and entrepreneurial opportunities making it a must read for anyone looking to excel in this dynamic and impactful field

Advanced Materials and Manufacturing Processes Amar Patnaik, Malay Kumar Banerjee, Ernst Kozeschnik, Albano Cavaleiro, J. Paulo Davim, Vikas Kukshal, 2021-10-14 This book discusses advanced materials and manufacturing processes with insights and overviews on tribology automation mechanical biomedical and aerospace engineering as well as the optimization of industrial applications The book explores the different types of composite materials while reporting on the design considerations and applications of each Offering an overview of futuristic research areas the book examines various engineering optimization and multi criteria decision making techniques and introduces a specific control framework used in analyzing processes The book includes problem analyses and solving skills and covers different types of composite materials their design considerations and applications This book is an informational resource for advanced undergraduate and graduate students researchers scholars and field professionals providing an update on the current advancements in the field of manufacturing processes

Materials Michael F. Ashby, Hugh Shercliff, David Cebon, 2018-11 Materials Fourth Edition Engineering Science Processing and Design is the essential materials engineering text for students who need to develop an understanding of materials properties and selection for engineering applications Taking a unique design led approach that is broader in scope than other texts the book meets the curriculum needs of a wide variety of courses in the materials and design field including Introduction to Materials Science and Engineering Engineering Materials Materials Selection and Processing and Behavior of Materials This new edition retains its design led focus and strong emphasis on visual communication while also expanding its coverage of material properties in particular non metals Provides a design led approach that motivates and engages students in the study of materials science and engineering through real life case studies and illustrative applications Highly visual full color graphics facilitate an understanding of materials concepts and properties Presents chapters on materials selection design and fundamentals thus helping students understand specific fundamentals in the design process Includes a solutions manual lecture slides online image bank and materials selection charts for use in class handouts or lecture presentations

Practical Handbook of Materials Science Charles T. Lynch, 1989-08-31 CRC Practical Handbooks are a series of single

volume bench manuals that feature a synthesis of frequently used basic reference information. These highly abridged versions of existing CRC multi volume Handbooks contain largely tabular and graphic data. They provide extensive coverage in a scientific discipline and enable quick convenient access to the most practical reference information on the spot. Leading professionals in their respective fields collaborated to provide individuals and institutions with an economical and easy to use source of classic reference information. Practical Handbook of Materials Science is a concise reference for the physical properties of solid state and structural materials. This work is interdisciplinary in approach and content and it covers a variety of types of materials including materials of present commercial importance plus new biomedical composite and nuclear materials. Research scientists and practicing engineers in the fields of materials science and engineering, civil engineering, chemistry, physics and nuclear chemists and engineers will benefit from this economical desktop reference. It also has a large interdisciplinary market for students at the advanced undergraduate and graduate levels in science and engineering.

Handbook of Materials Characterization Jeff Turner, 2012-09. This text provides a collection of advanced techniques which will be of use to postgraduates, researchers and faculty in the field of metallurgy and materials science.

Materials Science and Technology, Processing of Metals and Alloys Robert W. Cahn, Peter Haasen, E. J.

Kramer, 1996-12-16. The properties of metals and alloys and thus their effectiveness in applications are closely related to the processing methods applied. Metallurgists and other technologists involved with metals and alloys are provided with a unique overview of processing techniques and their effects. From the Contents: Flemings Solidification Processing; Suryanarayana Rapid Solidification; Mordike Surface Modification by Lasers; Arunachalam Sundaresan Powder Metallurgy; Koch Mechanical Milling and Alloying; Follstaedt Ion Implantation and Ion Beam Mixing; Pashley The Epitaxy of Metals; Somekh Greer Metallic Multilayers; Humphreys Recrystallization and Recovery; Cahn Measurement and Control of Texture; de Bonte Roos Celis Electrodeposition of Metals and Alloys; Sahm Keller Solidification Processing Under Microgravity; Siegel Cluster Assembly of Nanophase Materials.

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