

MAGNETO-OPTICAL RECORDING MATERIALS

EDITED BY

Richard J. Gambino

Takao Suzuki

Magneto Optical Recording Materials

Masud Mansuripur



Magneto Optical Recording Materials:

Magneto-Optical Recording Materials Richard J. Gambino, Takao Suzuki, 2000 This book explores multilayered thin films exchanged coupled layers materials used in current products and materials of potential interest not yet available in practical applications A detailed analysis concerning the physics of magneto optical recording will help you make informed decisions about materials properties You will also find an extensive discussion of systems and engineering design features for magneto optical storage devices This discussion will help you to understand how materials properties affect system performance Jacket Magneto-optical Recording Materials R.J. Gambino, 2000 **Handbook of Magneto-Optical Data Recording** Terry W. McDaniel, Randall Victora, 1995-12-31 This handbook brings together in a single volume expert contributions on the many aspects of MO data recording including the materials in use techniques for achieving recording function and storage device subsystems As a multiple author treatment it brings perspective from many viewpoints and institutions The insights delivered should be valuable to a wide audience from students to practitioners in all areas of information storage The Physical Principles of Magneto-optical Recording Masud Mansuripur, 1998-07-30 First time paperback of successful and well reviewed book for graduate students and researchers in physics and engineering

Modern Magneto-optics and Magneto-optical Materials A.K Zvezdin, V.A Kotov, 1997-01-01 Modern Magneto-optics and Magneto-optical Materials provides a comprehensive account of the principles and applications of magneto-optics bridging the gap between textbooks and specialist accounts in the research and review literature The book is aimed at the graduate physicist and electrical engineer but assumes no specialist knowledge of magneto-optics Chapters have been designed to be reasonably independent so that readers in search of information on a particular topic can go straight to the appropriate place in the book with only occasional reference to material elsewhere Divided into three main parts the book begins with the principles of magneto-optics to provide the necessary theoretical background This section's emphasis is on introducing practical considerations through examples taken from real life situations The next part surveys a wide range of magneto-optic materials including metals alloys and granular structures The final part explores applications of magneto-optics in practical devices such as modulators switches memory devices and waveguides This book provides a thorough introduction for graduate students of physics and electrical engineering and a useful reference for researchers Frontiers in Magnetic Materials Chen Wu, Jiaying Jin, 2022-08-12 The book aims to provide comprehensive and practical guidance on magnetism and magnetic materials It involves four parts focusing on fundamental magnetism hard magnetic materials soft magnetic materials and other functional magnetic materials Part I highlights the ubiquity of magnetism and the close relationships between magnetic materials and our daily life Perspectives on magnetism from Engineering and Physics are provided to introduce the two unit systems followed by the origin and categories of magnetisms An introduction of important parameters during magnetization and magnetic measurement techniques are then provided to lay a solid foundation for the readers for

better understandings of the design and development of different magnetic materials Important magnetic materials are then introduced in the subsequent parts delivering an overview of design principles production technologies research developments and real world applications For instance rare earth free and rare earth based hard magnetic materials as well as soft magnetic materials such as Fe based alloys composites and ferrites are discussed Other functional magnetic materials span a wide range involving smart materials with magneto X effects together with magnetic materials for applications including electromagnetic wave absorption biomedicine and catalysis etc For these magnetic materials more emphasis is placed on the latest advances and interdisciplinary perspectives

Handbook of Optical Properties Rolf E. Hummel, Karl H. Guenther, 1995-02-24 Thin Films for Optical Coating emphasizes the applications of thin films deposition of thin films and thin film characterization Unlike monographs on this subject this book presents the views of many expert authors Individual chapters span a wide arc of topics within this field of study The book offers an introduction to usual and unusual applications of optical thin films treating in a more qualitative way general topics such as anticounterfeiting coatings decorative coatings light switches contrast enhancement coatings multiplexers optical memories and more Contributors review thin film media for optical data storage UV broadband and narrow band filters and optically active thin film coatings Ion beam sputtering and magnetron sputtering deposition methods are described in detail Characterization techniques are provided including Raman spectroscopy and absorption measurements The book also offers theories on light scattering of thin dielectric films and the electromagnetic properties of nanocermet thin films This reference incorporates recent research by the individual authors with their views of current developments in their respective fields Of particular interest to the reader will be an assessment of the historical developments of thin film physics written by one of the fathers of thin film technology Professor M Auw rter

Measurement Methods and Materials for High Density Magneto-optical Recording Kaijun Yi, 2002

Holographic Recording Materials H.M. Smith, 2006-01-21 With contributions by numerous experts **Physics of**

Magnetism and Magnetic Materials K.H.J Buschow, F.R. de Boer, 2007-05-08 In this book the fundamentals of magnetism are treated starting at an introductory level The origin of magnetic moments the response to an applied magnetic field and the various interactions giving rise to different types of magnetic ordering in solids are presented and many examples are given Crystalline electric field effects are treated at a level that is sufficient to provide the basic knowledge necessary in understanding the properties of materials in which these effects play a role Itinerant electron magnetism is presented on a similar basis Particular attention has been given to magnetocrystalline magnetic anisotropy and the magnetocaloric effect Also the usual techniques for magnetic measurements are presented About half of the book is devoted to magnetic materials and the properties that make them suitable for numerous applications The state of the art is presented of permanent magnets high density recording materials soft magnetic materials Invar alloys and magnetostrictive materials Many references are given

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