
Optical Media

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CONOR SOLIS

The Handbook of Optical Memory Systems Oxford University Press on Demand

"This major new book provides a concise history of optical media from Renaissance linear perspective to late twentieth-century computer graphics. Kittler begins by looking at European painting since the Renaissance in order to discern the principles according to which modern optical perception was organized. He also discusses the development of various mechanical devices, such as the camera obscura and the laterna magica, which were closely connected to the printing press and which played a pivotal role in the media war between the Reformation and the Counter-Reformation." "After examining this history, Kittler then addresses the ways in which images were first stored and made to move, through the development of photography and film. He discusses the competitive relationship between photography and painting as well as between film and theater, as innovations like the Baroque proscenium or "picture-frame" stage evolved from elements that would later constitute cinema. The central question, however, is the impact of film on the ancient monopoly of writing, as it not only provoked new forms of competition for novelists but also fundamentally altered the status of books. In the final section, Kittler examines the development of electrical telecommunications and electronic image processing from television to computer simulations." "In short, this book provides a comprehensive introduction to the history of image production that is indispensable for anyone wishing to understand the prevailing audiovisual conditions of contemporary culture."--Jacket.

Optical Media News and Information CRC Press

Friedrich Kittler's lecture series provides a concise history of optical media from Renaissance linear perspective to late twentieth-century computer graphics. He begins by looking at European painting since the Renaissance in order to discern the principles according to which modern optical perception was organized. Kittler also discusses the development of various mechanical devices, like the camera obscura and the laterna magica, which were closely connected to the printing press and which played a pivotal role in the media war between the Reformation and the Counterreformation. After examining this history, Kittler then addresses the ways in which images were first stored and made to move through the development of photography and film. Kittler discusses the competitive relationship between photography and painting as well as between film and theater, as innovations like the Baroque proscenium or "picture-frame" stage evolved from elements that would later constitute cinema. The central question, however, is the impact of film on the ancient monopoly of writing, as it not only provoked new forms of competition for novelists but also fundamentally altered the status of books. In the final section, Kittler examines the development of electrical telecommunications and electronic image processing from television to computer simulations. In short, these lectures provide a comprehensive introduction to the history of image production, which is indispensable for anyone wishing to understand the prevailing audiovisual conditions of

contemporary culture.

Optical Media Polity

With one million CD-ROM users worldwide, there is an urgent need to demystify the technology of compact-disc data recording and retrieval, which will eventually replace the floppy disk. This book meets that need. It will benefit students, engineers, and professionals from many disciplines who wish to understand and exploit the cost-effective potential of optical data storage and retrieval. The book provides a unique introduction to CD-ROM and other optical recording systems, and clearly describes how the two main competing systems--the magneto-optic and the phase change types--work. Topics include photodetectors, lasers, mastering, WORM media, and magneto-optic media, among others. Keep up to date with this superb new introduction to CD-ROM and optical disc recording systems.

Videodisc and Optical Digital Disk Technologies and Their Applications in Libraries CRC Press

Drawing together literature, media, and philosophy, *Ghostly Apparitions* provides a new model for media archaeology and its transformation of intellectual and literary history. Stefan Andriopoulos examines new media technologies and distinct cultural realms, tracing connections between Kant's philosophy and the magic lantern's phantasmagoria, the Gothic novel and print culture, and spiritualist research and the invention of television. As Kant was writing about the possibility of spiritual apparitions, the emerging medium of the phantasmagoria used hidden magic lanterns to startle audiences with ghostly projections. Andriopoulos juxtaposes the philosophical arguments of German idealism with contemporaneous occultism and ghost shows. In close readings of Kant, Hegel, and Schopenhauer, he traces the diverging modes in which these authors appropriated figures of optical media and spiritualist notions. The spectral apparitions from this period also intersect with the rise of popular print culture. Andriopoulos explores the circulation of ostensibly authentic ghost narratives and the Gothic novel, which was said to produce "reading addiction" and a loss of reality. Romantic representations of animal magnetism and clairvoyance similarly blurred the boundary between fiction and reality. The final chapter of *Ghostly Apparitions* extends this archaeology of new media into the early twentieth century. Tracing a reciprocal inter_action between occultism and engineering, Andriopoulos uncovers how theories and devices of psychical research enabled the emergence of television.

Digitization and Digital Archiving Chicago, Ill. : American Library Association

Light Propagation in Linear Optical Media describes light propagation in linear media by expanding on diffraction theories beyond what is available in classic optics books. In one volume, this book combines the treatment of light propagation through various media, interfaces, and apertures using scalar and vector diffraction theories. After covering the fundamentals of light and physical optics, the authors discuss light traveling within an anisotropic crystal and present mathematical models for light propagation across planar boundaries between different media. They describe the propagation of Gaussian beams and discuss various diffraction models for the propagation of light. They also explore methods for spatially confining (trapping) cold atoms within localized light-intensity

patterns. This book can be used as a technical reference by professional scientists and engineers interested in light propagation and as a supplemental text for upper-level undergraduate or graduate courses in optics.

Optical Disk Systems Westport [Conn.] : Meckler

"This is very unique and promises to be an extremely useful guide to a host of workers in the field. They have given a generalized presentation likely to cover most if not all situations to be encountered in the laboratory, yet also highlight several specific examples that clearly illustrate the methods. They have provided an admirable contribution to the community. If someone makes their living by designing lasers, optical parametric oscillators or other devices employing nonlinear crystals, or designing experiments incorporating laser beam propagation through linear or nonlinear media, then this book will be a welcome addition to their bookshelf." —Richard Sutherland, Mount Vernon Nazarene University, Ohio, USA *Laser Beam Propagation in Nonlinear Optical Media* provides a collection of expressions, equations, formulas, and derivations used in calculating laser beam propagation through linear and nonlinear media which are useful for predicting experimental results. The authors address light propagation in anisotropic media, oscillation directions of the electric field and displacement vectors, the walk-off angles between the Poynting and propagation vectors, and effective values of the d coefficient for biaxial, uniaxial, and isotropic crystals. They delve into solutions of the coupled three wave mixing equations for various nonlinear optical processes, including quasi-phase matching and optical parametric oscillation, and discuss focusing effects and numerical techniques used for beam propagation analysis in nonlinear media, and phase retrieval technique. The book also includes examples of MATLAB and FORTRAN computer programs for numerical evaluations. An ideal resource for students taking graduate level courses in nonlinear optics, *Laser Beam Propagation in Nonlinear Optical Media* can also be used as a reference for practicing professionals.

Rewritable Optical Storage Technology Westport, CT : Meckler

Light Propagation in Linear Optical Media describes light propagation in linear media by expanding on diffraction theories beyond what is available in classic optics books. In one volume, this book combines the treatment of light propagation through various media, interfaces, and apertures using scalar and vector diffraction theories. After covering the fundamentals of light and physical optics, the authors discuss light traveling within an anisotropic crystal and present mathematical models for light propagation across planar boundaries between different media. They describe the propagation of Gaussian beams and discuss various diffraction models for the propagation of light. They also explore methods for spatially confining (trapping) cold atoms within localized light-intensity patterns. This book can be used as a technical reference by professional scientists and engineers interested in light propagation and as a supplemental text for upper-level undergraduate or graduate courses in optics.

Optical Discs for Storage and Access in ARL Libraries Westport, CT : Meckler Pub.

Working paper on the development of and international market for video recording as a modern means of information retrieval and information dissemination - describes videodisks, CD ROM and optical disks. References.

Applications of Optical Digital Data Disk Storage Systems Springer Science & Business Media

This is an overview of recording principles, materials aspects, and applications of rewritable optical storage. Elements of data recording, including mark formation, eraseability, direct overwrite strategies, data quality and data stability are explained and extensively discussed. Throughout the book, a mark formation model is described and used to back-up measurement results and support the discussed applications. High-speed and dual-layer recording are analyzed in depth, with proposals to achieve higher performance.

Optical Propagation in Linear Media Westport, CT : Meckler Publishing Corporation ; Hatfield, Herts, U.K. : Cimtech/BNBRF

The main emphasis of this book is on the potential applications of CD-ROM in the commercial and technical publishing arena.

Optical Disks, 1985 Princeton University Press

Publisher description

Official Gazette of the United States Patent and Trademark Office Westport, CT : Meckler

In March 1979, a prototype of a 'Compact Disc (CD) digital audio system' was publicly presented and demonstrated to an audience of about 300 journalists at Philips in Eindhoven, The Netherlands. This milestone effectively marked the beginning of the digital entertainment era. In the years to follow, the CD-audio system became an astonishing worldwide success, and was followed by successful derivatives such as CD-ROM, CD-RW, DVD, and recently Blu-ray Disc. Today, around the thirtieth anniversary of the milestone, it is taken for granted that media content is stored and distributed digitally, and the analog era seems long gone. This book retraces the origins of the CD system and the subsequent evolution of digital optical storage, with a focus on the contributions of Philips to this field. The book contains perspectives on the history and evolution of optical storage, along with reproductions of key technical contributions of Philips to the field.

Light Propagation in Linear Optical Media Westport, CT : Meckler

The Magnetic & Optical Media World Summary Paperback Edition provides 7 years of Historic & Current data on the market in about 100 countries. The Aggregated market comprises of the 40 Products / Services listed. The Products / Services covered (Magnetic & optical media) are classified by the 5-Digit NAICS Product Codes and each Product and Services is then further defined by each 6 to 10-Digit NAICS Product Codes. In addition full Financial Data (188 items: Historic & Current Balance Sheet, Financial Margins and Ratios) Data is provided for about 100 countries. Total Market Values are given for 40 Products/Services covered, including: MAGNETIC + OPTICAL MEDIA 1. Manufacturing & reproducing magnetic & optical media 2. Software reproducing 3. Software reproducing, nsk, total 4. Software reproducing, nsk, nonadministrative-record 5. Software reproducing, nsk, administrative-record 6. Prerecorded discs & media 7. Prerecorded compact disc (except software), media & record reproducing 8. Audio media & compact discs, full-length 9. Audio media & compact discs, full-length 10. CDs full-length 11. Reproduction of video recording media 12. DVDs / Blu-Ray 13. Video recordings 14. Reproduction of computer software 15. All other reproduction of recording media 16. Audio media singles 17. Audio media albums 18. Audio media + compact disc (CD) singles-maxisingles 19. Other audio discs or records, incl digitally mastered records for consumer use & master records used to press commercial records 20. CDs 21. Audio recordings 22. Reproduction of recording media, nsk 23. Reproduction of recording media, nsk,

nonadministrative-record 24. Reproduction of recording media, nsk, administrative-record 25. Magnetic & optical recording media manufactures 26. Magnetic & optical recording media, unrecorded 27. Magnetic & optical recording media, unrecorded disks 28. Magnetic & optical recording media, unrecorded media 29. All other magnetic & optical recording media, unrecorded 30. Magnetic & optical recording media, nsk, total 31. Magnetic & optical recording media, nsk, nonadministrative-record 32. Magnetic & optical recording media, nsk, administrative-record There are 188 Financial items covered, including: Total Sales, Pre-tax Profit, Interest Paid, Non-trading Income, Operating Profit, Depreciation, Trading Profit, Assets (Intangible, Intermediate + Fixed), Capital Expenditure, Retirements, Stocks, Total Stocks / Inventory, Debtors, Maintenance Costs, Services Purchased, Current Assets, Total Assets, Creditors, Loans, Current Liabilities, Net Assets / Capital Employed, Shareholders Funds, Employees, Process Costs, Total Input Supplies / Materials + Energy Costs, Employees Remunerations, Sub Contractors, Rental & Leasing, Maintenance, Communication, Expenses, Sales Costs + Expenses, Premises, Handling + Physical Costs, Distribution Costs, Advertising Costs, Product Costs, Customer + After-Sales Costs, Marketing Costs, New Technology + Production, R + D Expenditure, Operational Costs. /.. etc.

Playful Visions Cambridge University Press

A detailed comparison between optical disks and micrographics for the storage and retrieval of documents, emphasizing the factors that limit one or the other in specific applications. Surveys the published opinions about the relative value of the two technologies; provides a point-by-point comparison of features; and discusses such topics as computer output laser disk and CD-ROM. Revised from the 1988 edition. Annotation copyright by Book News, Inc., Portland, OR

Videodiscs, Compact Discs and Digital Optical Disk Systems Association of Research Libr

The kaleidoscope, the stereoscope, and other nineteenth-century optical toys analyzed as “new media” of their era, provoking anxieties similar to our own about children and screens. In the nineteenth century, the kaleidoscope, the thaumatrope, the zoetrope, the stereoscope, and other optical toys were standard accessories of a middle-class childhood, used both at home and at school. In *Playful Visions*, Meredith Bak argues that the optical toys of the nineteenth century were the “new media” of their era, teaching children to be discerning consumers of media—and also provoking anxieties similar to contemporary worries about children's screen time. Bak shows that optical toys—which produced visual effects ranging from a moving image to the illusion of depth—established and reinforced a new understanding of vision as an interpretive process. At the same time, the expansion of the middle class as well as education and labor reforms contributed to a new notion of childhood as a time of innocence and play. Modern media culture and the emergence of modern Western childhood are thus deeply interconnected. Drawing on extensive archival research, Bak discusses, among other things, the circulation of optical toys, and the wide visibility gained by their appearance as printed templates and textual descriptions in periodicals; expanding conceptions of literacy, which came to include visual acuity; and how optical play allowed children to exercise a sense of visual mastery. She examines optical toys alongside related visual technologies including chromolithography—which inspired both chromatic delight and chromophobia. Finally, considering the contemporary use of optical toys in advertising, education, and art, Bak analyzes the endurance of nineteenth-century visual paradigms.

Optical Disks Vs. Micrographics as Document Storage & Retrieval Technologies CRC Press

"This is very unique and promises to be an extremely useful guide to a host of workers in the field. They have given a generalized presentation likely to cover most if not all situations to be encountered in the laboratory, yet also highlight several specific examples that clearly illustrate the methods. They have provided an admirable contribution to the community. If someone makes their living by designing lasers, optical parametric oscillators or other devices employing nonlinear crystals, or designing experiments incorporating laser beam propagation through linear or nonlinear media, then this book will be a welcome addition to their bookshelf." —Richard Sutherland, Mount Vernon Nazarene University, Ohio, USA

Laser Beam Propagation in Nonlinear Optical Media provides a collection of expressions, equations, formulas, and derivations used in calculating laser beam propagation through linear and nonlinear media which are useful for predicting experimental results. The authors address light propagation in anisotropic media, oscillation directions of the electric field and displacement vectors, the walk-off angles between the Poynting and propagation vectors, and effective values of the d coefficient for biaxial, uniaxial, and isotropic crystals. They delve into solutions of the coupled three wave mixing equations for various nonlinear optical processes, including quasi-phase matching and optical parametric oscillation, and discuss focusing effects and numerical techniques used for beam propagation analysis in nonlinear media, and phase retrieval technique. The book also includes examples of MATLAB and FORTRAN computer programs for numerical evaluations. An ideal resource for students taking graduate level courses in nonlinear optics, *Laser Beam Propagation in Nonlinear Optical Media* can also be used as a reference for practicing professionals.

Laser Beam Propagation in Nonlinear Optical Media Oxford University Press, USA

First-time paperback of successful and well-reviewed book; for graduate students and researchers in physics and engineering.

Optical Discs Westport, CT : Meckler

To help new archivists and genealogists with what can be a daunting process, *Digitization and Digital Archiving: A Practical Guide for Librarians* answers common questions, including: 1. What should be stored? 2. Where and how should it be stored? 3. How exactly is information stored in a computer? 4. How does copyright law affect archiving? 5. How can metadata be used to improve collection access? This revised second edition has been updated to address new trends and the latest innovations in technology, including: 1. A brand-new chapter addressing different common types of born-digital materials which a librarian may need to archive, such as databases or websites 2. Information about identifying and gathering data from floppy disks, an increasingly important task as this technology ages and its data becomes at greater risk of loss 3. Fully updated chapters to address the latest changes in file storage and formats, including more information on the storage of audio and video media 4. Interesting information about the origins of different common technologies to help the reader better understand the past, present, and future of computer technology This is a comprehensive guide to the process of digital storage and archiving. Assuming only basic computer knowledge, this guide walks the reader through everything he or she needs to know to start or maintain a digital archiving project. Any librarian interested in how digital information is stored can benefit from this guide.

Introduction to Optical Technology CRC Press

Recognizing that the fast-developing optical storage technologies provide a new dimension in publishing and information storage, retrieval, and distribution, this report examines the technical characteristics and capabilities of video and optical systems and the implications of this technology. The following aspects of optical disk systems are discussed: (1) the range of optical disk systems currently on the market or under development, including a functional classification of the different systems; (2) applications for optical disk systems in the publishing field; (3) applications for optical

disk systems in the library and information field; and (4) issues relating to the use of optical disk systems where research could and is being profitably carried out in the publishing and library and information fields. References, a select bibliography, and a listing of journals, newsletters, and sources of further information are appended. (KM)

Principles of Optical Disc Systems, Bellingham, Wash., USA : SPIE--International Society for Optical Engineering

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