



Development Of Long Lifetime Photorefractive Crystals For Holographic Data Storage

Jean-Pierre Goedgebuer



Development Of Long Lifetime Photorefractive Crystals For Holographic Data Storage:

Development of Long Lifetime Photorefractive Crystals for Holographic Data Storage, 1998 The lifetime of thermally fixed photorefractive holograms in iron doped lithium niobate was investigated A prescription for material preparation and fixing technique was developed that enables a thermally fixed hologram to be recorded in Fe doped LiNbO₃ with high diffraction efficiency and long lifetime In particular a hologram with a fixed photorefractive index modulation of 10×10^3 and a 100 year lifetime at room temperature is predicted A lithium niobate crystal was processed according to the prescription and a thermally fixed hologram was recorded at high temperature The projected lifetime of the hologram at 25 deg C was shown to be 110 years

Holographic Data Storage Kevin Curtis, Lisa Dhar, Adrian Hill, William Wilson, Mark Ayres, 2011-09-07 Holographic Data Storage From Theory to Practical Systems is a primer on the design and building of a holographic data storage system covering the physics Servo Data Channel Recording Materials and optics behind holographic storage the requirements of a functioning system and its integration into real life systems Later chapters highlight recent developments in holographic storage which have enabled readiness for commercial implementation and discuss the general outlook for the technology including the transition from professional to consumer markets and the possibilities for mass reproduction

Encyclopedia of Optical and Photonic Engineering (Print) - Five Volume Set Craig Hoffman, Ronald Driggers, 2015-09-22 The first edition of the Encyclopedia of Optical and Photonic Engineering provided a valuable reference concerning devices or systems that generate transmit measure or detect light and to a lesser degree the basic interaction of light and matter This Second Edition not only reflects the changes in optical and photonic engineering that have occurred since the first edition was published but also Boasts a wealth of new material expanding the encyclopedia s length by 25 percent Contains extensive updates with significant revisions made throughout the text Features contributions from engineers and scientists leading the fields of optics and photonics today With the addition of a second editor the Encyclopedia of Optical and Photonic Engineering Second Edition offers a balanced and up to date look at the fundamentals of a diverse portfolio of technologies and discoveries in areas ranging from x ray optics to photon entanglement and beyond This edition s release corresponds nicely with the United Nations General Assembly s declaration of 2015 as the International Year of Light working in tandem to raise awareness about light s important role in the modern world Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

Progress in Photorefractive Nonlinear Optics Kazuo Kuroda, 2002-03-14 This monograph collects together papers by leading researchers in the field of photorefractive nonlinear optics All of the works are presented by eminent researchers in their field and cover topics such as wave mixing in nonlinear optical materials photorefractive semiconductors organic photorefractive materials and volume holographic storage Progress in Photorefractive Nonlinear Optics consists of chapters written by authors all serving as invited speakers to the Waseda International Symposium on Phase Conjugation and

Wave Mixing held in Japan in 1997 This integrated collection of papers will be vital reading for all researchers or students of Master s level and above in the fields of optics physical chemistry and material science *Infrared Holography for Optical Communications* Pierpaolo Boffi, Davide Piccinin, Maria C. Ubaldi, 2003-07-01 The aim of this book is to exploit the advantages of holographic technology in order to implement optical devices for infrared fibre communication applications It covers methods ranging from two lambda to gated recording techniques Encyclopedia of Optical Engineering: Abe-Las, pages 1-1024 Ronald G. Driggers, 2003 PRINT ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST ATe reference taylorandfrancis com Advances in Optical Data Storage Technology Duanyi Xu, Kees A. Schouhamer Immink, Keiji Shono, 2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **Summaries of Papers Presented at the Conference of Lasers and Electro-optics** ,2002 **NASA Tech Briefs** ,1990 **Summaries of Papers Presented at the Conference on Lasers and Electro-optics** ,1997

Holographic Data Storage Hans J. Coufal, Demetri Psaltis, Glenn T. Sincerbox, 2012-09-03 Holographic Data Storage is an outstanding reference book on an exciting topic reaching out to the 21st century s key technologies The editors Hans J Coufal IBM Demetri Psaltis CalTech and Glenn Sincerbox University of Arizona together with leading experts in this area of research from both academic research and industry bring together the latest knowledge on this technique The book starts with an introduction on the history and fundamentals multiplexing methods and noise sources The following chapters describe in detail recording media components channels platforms for demonstration and competing technologies such as classical hard disks or optical disks More than 700 references make this book the ultimate source of information for the years to come The book is intended for physicists optical engineers and executives alike **Photorefractive Materials and Their Applications 3** Peter Günter, Jean Pierre Huignard, 2007-08-30 This is the final volume of a series devoted to photorefractive effects photorefractive materials and their applications Since publication of the first two volumes almost 20 years ago new and often unexpected effects have been discovered Theoretical models have been developed known effects can be finally explained and novel applications have been proposed For this volume the editors have invited top experts to reflect on the maturity of the field assessing progress so far and predicting avenues of future development In addition a series of applications of photorefractive nonlinear optics and of optical data storage are presented in several chapters

Optical Information, Data Processing and Storage, and Laser Communication Technologies Jean-Pierre Goedgebuer, 2003 *Advanced Optical and Quantum Memories and Computing* H. Coufal, Zameer U. Hasan, 2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research

and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Encyclopedia of Optical Engineering: Pho-Z, pages 2049-3050 Ronald G. Driggers, 2003 Compiled by 330 of the most widely respected names in the electro optical sciences the Encyclopedia is destined to serve as the premiere guide in the field with nearly 2000 figures 560 photographs 260 tables and 3800 equations From astronomy to x ray optics this reference contains more than 230 vivid entries examining the most intriguing technological advances and perspectives from distinguished professionals around the globe The contributors have selected topics of utmost importance in areas including digital image enhancement biological modeling biomedical spectroscopy and ocean optics providing thorough coverage of recent applications in this continually expanding field

Advanced Optical Data Storage H. Coufal, Alan Ellsworth Craig, Zameer U. Hasan, 2003

Photorefractive Effects, Materials, and Devices, 2005

Landmark Papers On Photorefractive Nonlinear Optics Pochi Yeh, Claire Gu, 1995-07-14 This book intended for students researchers and engineers is a collection of classic papers on photorefractive nonlinear optics Included are landmark papers on fundamental photorefractive phenomena two wave mixing four wave mixing phase conjugators and resonators material growth and physics and applications in image processing optical storage and optical computing

Nonlinear Optical Effects and Materials Peter Günter, 2012-12-06 It is now well established that a unique feature of coherent optical beams is their ability to transmit process store and interconnect in parallel a large number of high bandwidth information channels However although these techniques possess great potential their development depends critically on the nonlinear optical effects used and on the availability of nonlinear optical materials that work at high speed and low incident optical power At present these requirements are stimulating a great deal of research in materials science and are challenging existing technologies in particular high speed electronics This volume devoted to nonlinear optical effects and materials presents a detailed account of selected topics in inorganic and organic materials research The status of organic crystals and polymers for nonlinear optics is critically compared with their inorganic counterparts The preparation techniques and a description of the methods used to characterize the nonlinear optical effects relevant for device applications are dealt with as well as a theoretical description of the nonlinear optical electro optical and photorefractive effects observed The main concepts and potential applications are outlined and developed in the various chapters of this book This collection of articles provides a broad survey of selected research topics in organic and inorganic nonlinear optics

Optical Information Processing David Paul Casasent, Alexander A. Sawchuk, Society of Photo-optical Instrumentation Engineers, 1977

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