

Photorefractive Materials

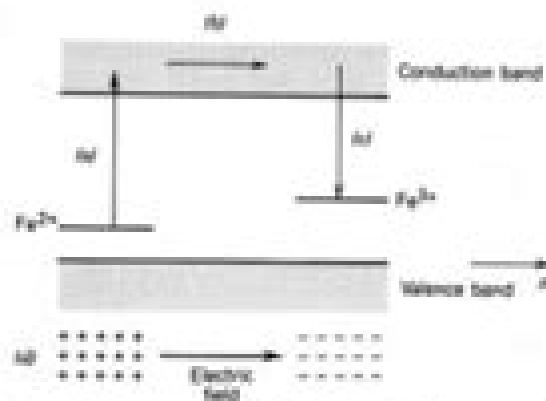


Figure 18.4-1 Energy-level diagram of LiNbO₃ illustrating the processes of (a) photoionization, (b) diffusion, (c) recombination, and (d) space-charge formation and electric-field generation. Fe²⁺ impurity centers act as donors, becoming Fe³⁺ when ionized, while Fe³⁺ centers act as traps, becoming Fe²⁺ after recombination.

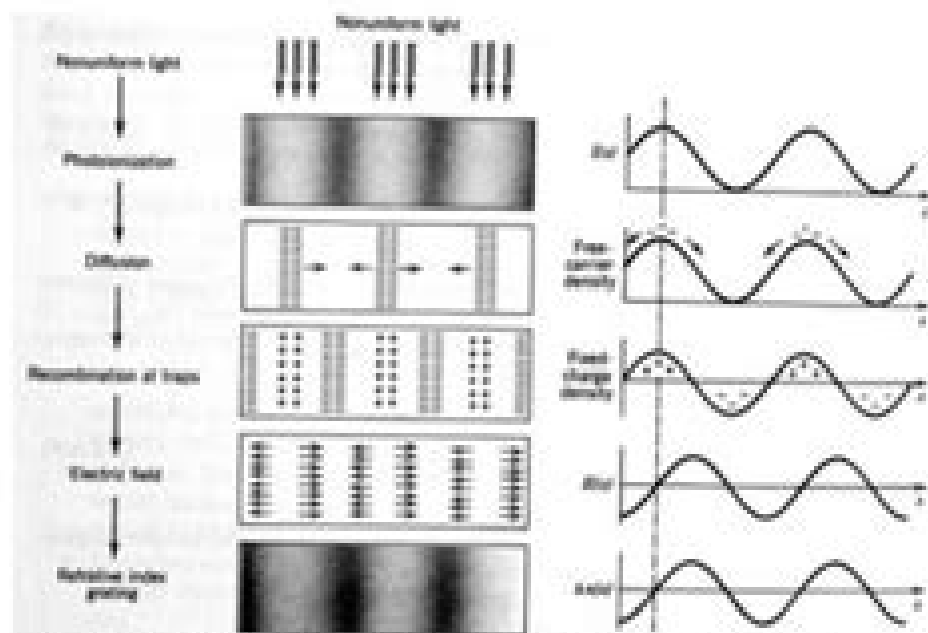


Figure 18.4-2 Response of a photorefractive material to a sinusoidal spatial light pattern.

Photorefractive Materials

Aimé Peláiz-Barranco



Photorefractive Materials:

Photorefractive Materials and Their Applications 1 Peter Günter, Jean Pierre Huignard, 2006-04-09 This is the first volume of a set of three within the Springer Series in Optical Sciences and is devoted to photorefractive effects photorefractive materials and their applications Since the publication of our first two Springer books on Photorefractive Materials and Their Applications Topics in Applied Physics Vols 61 and 62 almost 20 years ago a lot of research has been done in this area New and often expected effects have been discovered theoretical models developed known effects finally explained and novel applications proposed We believe that the field has now reached a high level of maturity even if research continues in all areas mentioned above and with new discoveries arriving quite regularly We therefore have decided to invite some of the top experts in the field to put together the state of the art in their respective fields This after we had been encouraged to do so for more than ten years by the publisher due to the fact that the former volumes were long out of print

Photorefractive Materials G. Roosen, F. Agulló-López, O.F. Schirmer, 2013-10-22 The papers presented here reflect the core of the scientific activities that took place at the 1994 E MRS conference The contributions indicate that the field of photorefractive materials is advancing vigorously moving into new classes of compounds finding ways for the judicious tailoring of the microscopic properties of the materials based on increased insight into the features of defects or quantum wells and leading to new applications often made possible by the advances at the forefront of the materials The many papers presented by European participants emphasised the large amount of work being carried out here Stimulating contributions also came from the United States and Japan while papers presented by members from the industrial world indicate the importance of the field in this sector

Photorefractive Materials and Their Applications 2 Peter Günter, Jean Pierre Huignard, 2007-11-13 This second volume of the series on photorefractive effects focuses on the most recent developments in the field and highlights the parameters which govern the photoinduced nonlinearity Besides reviewing conventional electro optic crystals this book deals with organic photorefractive materials giving an in depth assessment of the present understanding of the effect in a variety of materials The materials considered in this volume will play a significant role in the development of applications such as presented in the third volume

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

The Physics and Applications of Photorefractive Materials L. Solymar, D. J. Webb, A. Grunnet-Jepsen, 1996-08-15 Photorefractive materials combine photoconductive and electro optic

properties light affects their electrical conductivity their optical properties refractive index etc are affected by applied electric fields The aim of this book is to cover the vast range of phenomena occurring in Photorefractive Materials For Physicists it is part of the fashionable subject of Nonlinear Optics Engineers tend to place it as part of optoelectronics promising a variety of new devices This book summarizes the results of 28 years of research in a manner that would appeal both to the beginner a graduate student who has just entered the field and to the expert who might have done research on some aspect of the subject for a decade or more It is in three parts Part I serves as an introduction with emphasis on physical principles and simple mathematical models Part II is a comprehensive account of all the major advances Its main merit is the organization of the material accompanied by a detailed list of references Part III is concerned with the enormous range of potential applications

Photorefractive Materials and Their Applications II Peter Günter, Jean-Pierre Huignard, 2008-06-27 This is the second of two volumes that review for the first time all major aspects of photorefractive effects and their applications Photorefractive effects in electro optic crystals are based on optically induced space charge fields which ultimately alter the refractive indices by the electro optic Pockels effect The fundamental phenomena leading to photoinduced changes of refractive index the materials requirements and experimental results on a variety of photorefractive materials are discussed and the most recent theoretical models describing these phenomena are presented Interest in photorefractive materials has increased in recent years mainly because of their potential for nonlinear optical devices and for optical signals processing applications Most of these applications are reviewed in this volume The contributions to the two volumes are written by experts on each topic and are intended for scientists and engineers active in the field and for researchers and graduate students entering the field Over 300 references to original papers on photorefractive and associated phenomena are cited Volume 1 appeared as Volume 61 of Topics in Applied Physics

Electro-optic and Photorefractive Materials Peter Günter, 2012-12-06 This volume is based on lectures and contributed papers presented at the Eleventh Course of the International School of Materials Science and Technology that was held in Erice Sicily Italy at the Ettore Majorana Center for Scientific Culture during the period 6-17 July 1986 The subject of the course was Electro optic and Photorefractive Materials Applications in Signal Processing and Phase Conjugation The fields of electro optics and photorefractive materials have developed rapidly since the invention of lasers just over twenty five years ago The possibility of altering the optical properties of a material by electric fields or by its optical waves is of great importance for both pure science and for practical applications such as optical signal processing telecommunications and optical display devices These effects allow us to manipulate modulate deflect and process a given light wave Modulation deflection and processing of light waves by means of the electro optic effect is of fundamental importance in fiber optic telecommunications and sensor systems where the light signals can be processed prior or subsequent to transmission through the fibers Thin film electro optic materials with suitable electrode arrays on the surface of the wave guiding structures result in a technology often referred to

as integrated optics In principle integrated optics devices allow miniaturization and integration of many operations onto a single chip The photorefractive effect defined as a photo induced change of the indices of refraction was the other topic treated in this course **Photorefractive Materials and Their Applications 1** Peter Günter,Jean Pierre

Huignard,2010-11-25 This is the first volume of a set of three within the Springer Series in Optical Sciences and is devoted to photorefractive effects photorefractive materials and their applications Since the publication of our first two Springer books on Photorefractive Materials and Their Applications Topics in Applied Physics Vols 61 and 62 almost 20 years ago a lot of research has been done in this area New and often expected effects have been discovered theoretical models developed known effects finally explained and novel applications proposed We believe that the field has now reached a high level of maturity even if research continues in all areas mentioned above and with new discoveries arriving quite regularly We therefore have decided to invite some of the top experts in the field to put together the state of the art in their respective fields This after we had been encouraged to do so for more than ten years by the publisher due to the fact that the former volumes were long out of print *Photorefractive Materials and Their Applications I* Peter Günter,Jean-Pierre

Huignard,2014-08-23 This is the first of two volumes that review for the first time all major aspects of photorefractive effects and their applications Photorefractive effects in electro optic crystals are based on optically induced space charge fields which ultimately alter the refractive indices by the electro optic Pockels effect The fundamental phenomena leading to photoinduced changes of refractive index the materials requirements and experimental results on a variety of photorefractive materials are discussed and the most recent theoretical models describing these phenomena are presented Interest in photorefractive materials has increased in recent years mainly because of their potential for nonlinear optical devices and for optical signals processing applications Most of these applications are reviewed in the second volume devoted to this topic The contributions to these two volumes are written by experts on each topic and are intended for scientists and engineers active in the field and for researchers and graduate students entering the field Over 300 references to original papers on photorefractive and associated phenomena are cited *Photorefractive Materials* Jaime Frejlich,2007-01-29 Photorefractive Materials presents an overview of the basic features and properties of photorefractive materials covering a wide array of related topics It provides a coherent approach suitable for introductory and advanced students seeking to learn or review the fundamentals as well as senior researchers who need a reference while investigating more specialized areas

Photorefractive Materials and Their Applications: Survey of applications Peter Günter,Jean-Pierre Huignard,1988 This is the second of two volumes that review for the first time all major aspects of photorefractive effects and their applications Photorefractive effects in electro optic crystals are based on optically induced space charge fields which ultimately alter the refractive indices by the electro optic Pockels effect The fundamental phenomena leading to photoinduced changes of refractive index the materials requirements and experimental results on a variety of photorefractive materials are discussed

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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

Introduction to Organic Electronic and Optoelectronic Materials and Devices Sam-Shajing Sun, Larry R. Dalton, 2016-10-03 This book covers the combined subjects of organic electronic and optoelectronic materials devices It is designed for classroom instruction at the senior college level Highlighting emerging organic and polymeric optoelectronic materials and devices it presents the fundamentals principle mechanisms representative examples and key data

Advances in Photorefractive Materials, Effects, and Devices Peter E. Andersen, 1999

Photorefractive Effects and Materials David D. Nolte, 2013-11-27 The photorefractive effect is now firmly established as one of the highest sensitivity nonlinear optical effects making it an attractive choice for use in many optical holographic processing applications As with all technologies based on advanced materials the rate of progress in the development of photorefractive applications has been principally limited by the rate at which breakthroughs in materials science have supplied better photorefractive materials The last ten years have seen an upsurge of interest in photorefractive applications because of several advances in the synthesis and growth of new and sensitive materials This book is a collection of many of the most important recent developments in photorefractive effects and materials The introductory chapter which provides the necessary tools for understanding a wide variety of photorefractive phenomena is followed by seven contributed chapters that offer views of the state of the art in several different material systems The second chapter represents the most detailed study to date on the growth and photorefractive performance of BaTiO₃ one of the most important photorefractive ferroelectrics The third chapter describes the process of permanently fixing holographic gratings in ferroelectrics important for volumetric data storage with ultra high data densities The fourth chapter describes the discovery and theory of photorefractive spatial solitons Photorefractive polymers are an exciting new class of photo refractive materials described in the fifth chapter Polymers have

many advantages primarily related to fabrication that could promise a breakthrough to the marketplace because of ease and low cost of manufacturing

Ferroelectric Materials Aimé Peláiz-Barranco, 2015-07-29 Ferroelectric materials receive great attention from the scientific international community because of the interesting phenomena they exhibit and their multiple applications such as transducers capacitors pyroelectric sensors sonars random access memories etc The demand for ferroelectric materials for technological applications enforced the in depth research in addition to the improvement of processing and characterization techniques This book contains nine chapters and offers the results of several researches covering fabrication properties theoretical topics and phenomena at the nanoscale

Insulating Materials for Optoelectronics F. Agulló-López, 1995 This review volume presents new developments in the preparation physical characterization and applications of insulating materials for Optoelectronics Insulators occupy a leading position as laser and optical amplifier hosts electrooptic and acoustooptic modulators frequency doublers and optical parametric oscillators photorefractive devices and radiator detectors These applications rely heavily on the development of advanced techniques for the preparation of both bulk and waveguide structures the adequate knowledge of the microscopic behaviour defects impurities and a thorough understanding of their response to electromagnetic fields All these topics relating basic physicochemical aspects and applied performance are authoritatively discussed in the book

Photorefractive Materials and Their Applications , 2006

Organic Nonlinear Optical Materials Ch. Bosshard, 2020-04-23 Organic Nonlinear Optical Materials provides an extensive description of the preparation and characterization of organic materials for applications in nonlinear and electro optics The book discusses the fundamental optimization and practical limitations of a number of figures of merit for various optical parameters and gives a clinical appraisal of

Photo-Excited Processes, Diagnostics and Applications A. Peled, 2007-05-08 Photo Excited Processes Diagnostics and Applications covers the area of photo excitation and processing of materials by photons from the basic principles and theories to applications from IR to x rays from gas phase to liquid and solid phases The various chapters give a wide spectral view of this developing field Twelve leading groups worldwide set down to write this book during the past two years which include the most updated techniques used in their laboratories for investigating photo excited processes and new applications This book will be useful to scientists and engineers who have a strong interest in photo assisted processes development for microelectronics and photonics

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