

λ (nm)	ZnS			ZnO		
	n_2 (10^{-5} cm ² /GW)	α_3 cm ³ /GW ²	V	n_2 (10^{-5} cm ² /GW)	α_3 (α_2) cm ³ /GW ² (cm/GW)	V
720	1.4	1.9×10^{-3}	0.31	0.75	(1.3)	
730				0.83	(1.0)	
740				0.94	(0.77)	
750				1.0	(0.30)	
760	0.81	2.1×10^{-3}	0.50	1.0	(0.23)	1.8
770				1.0	(0.12)	
780				1.0	0.016	
800	0.53	1.7×10^{-3}	0.70	0.84	0.010	1.8
820				0.67	8.3×10^{-3}	
840				0.59	7.7×10^{-3}	
860	0.39	0.70×10^{-3}	0.56	0.54	6.6×10^{-3}	2.3
880				0.46	4.1×10^{-3}	
900				0.46	5.4×10^{-3}	
920	0.27	0.60×10^{-3}	0.55	0.33	4.6×10^{-3}	2.9
950				0.29	5.2×10^{-3}	
	0.32					3.1
						2.8
						3.8
						6.4
						10

Refractive Nonlinearity Of Wide Band Semiconductors And Applications

**Jose Manuel Cabrera, Fernando Agullo-
Rueda**



Refractive Nonlinearity Of Wide Band Semiconductors And Applications:

Refractive Nonlinearity of Wide-band Semiconductors and Applications A. A. Borshch, Mikhail Semenovich Brodin, V. Volkov, 1990 This series consists of self contained tracts on topics pertinent to the subject of laser technology starting with a basic introduction and going on to explore the most advanced results **Optical Parametric Generation and**

Amplification Jing-Yuan Zhang, 2019-01-22 This volume considers optical parametric generation and amplification OPG OPA as a means for producing a tunable optical parametric device It reviews the OPA OPG systems using various crystals pumped by lasers at various frequencies with pulse duration ranging from picoseconds to femtoseconds Part two covers the theoretical background for design of an OPA OPG system using two newly discovered nonlinear crystals Experimental design considerations are discussed in section three including the section of nonlinear crystals pumping sources and optical configurations In section four the experimental results obtained are compared with the theoretical calculations

Nonlinear Optics in Semiconductors I, 1998-10-22 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry Lasers Charles Blain, 2002 Developments in lasers continue to enable progress in many areas such as eye surgery the recording industry and dozens of others This book presents citations from the book literature for the last 25

years and groups them for ease of access which is also provided by subject author and titles indexes *Laser Plasma Theory and Simulation* Hector A. Baldis, 2020-05-05 This book covers recent developments in laser plasma physics such as absorption instability energy transport and radiation from the standpoint of theory and simulation for plasma corona showing how the elements for the high density compression depend on the interaction physics and heat transport Principles and Applications of Nonlinear Optical Materials R.W. Munn, C.N. Ironside, 2012-12-06 Nonlinear optics is a topic of much current interest that exhibits a great diversity Some publications on the subject are clearly physics while others reveal an engineering bias some appear to be accessible to the chemist while others may appeal to biological understanding Yet all

purport to be non linear optics so where is the underlying unity The answer is that the unity lies in the phenomena and the devices that exploit them while the diversity lies in the materials used to express the phenomena This book is an attempt to show this unity in diversity by bringing together contributions covering an unusually wide range of materials preceded by accounts of the main phenomena and important devices Because of the diversity individual materials are treated in separate chapters by different expert authors while as editors we have shouldered the task of providing the unifying initial chapters Most main classes of nonlinear optical solids are treated semiconductors glasses ferroelectrics molecular crystals polymers and Langmuir Blodgett films However liquid crystals are not covered Each class of material is enough for a monograph in itself and this book is designed to be an introduction suitable for graduate students and those in industry entering the area of nonlinear optics It is also suitable in parts for final year undergraduates on project work It aims to provide a bridge between traditional fields of expertise and the broader field of nonlinear optics

Nonlinear Optics in Semiconductors II

,1998-11-09 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry

Optical Oscillators with Degenerate Four-wave Mixing (dynamic Grating Lasers) Sergei Georgievich Odulov, Marat Samuilovich Soskin, 1991

Electrooptics Jose Manuel Cabrera, Fernando Agullo-Rueda, 2012-12-02 This comprehensive text provides an understanding of the physical phenomenon behind electrooptics It describes in detail modern electrooptic materials and operative physical mechanisms and devotes a full chapter to the new materials engineering that is contributing to the development of low dimensional systems The book also reviews device applications in both bulk and waveguide technologies Provides extensive coverage in a self contained format and consequently useful to beginners as well as specialists Includes the most current information Features many tables and illustrations to facilitate understanding

Photobiology Of Low-Power Lase T. I. Karu, 2020-08-26 This book provides information on current and promising developments in lasers It is

useful to researchers looking for concise information about a particular endeavor and engineers who would like to

understand the basic facts of the laser applications in their respective occupations

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Refractive Nonlinearity Of Wide Band Semiconductors And Applications**

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