



Optical Microcavities

Hiroyuki Yokoyama, Kikuo Ujihara



Optical Microcavities:

Optical Microcavities Kerry Vahala, 2004 Optical microcavities are structures that enable confinement of light to microscale volumes The universal importance of these structures has made them indispensable to a wide range of fields This important book describes the many applications and the related physics providing both a review and a tutorial of key subjects by leading researchers from each field The topics include cavity QED and quantum information nanophotonics and nanostructure interactions wavelength switching and modulation in optical communications optical chaos and biosensors

Handbook of Optical Microcavities Anthony H. W. Choi, 2014-10-06 The book covers a wide range of topics pertaining to resonance in optical cavities The topics include theory design simulation fabrication and characterization of micrometer and nanometer scale structures and devices that support cavity resonance via various mechanisms such as Fabry Perot whispering gallery photonic bandgap and plasmonic modes The chapters discuss optical cavities that resonate from UV to IR wavelengths and are based on prominent III V material systems including Al In and Ga nitrides ZnO and GaAs

Ultra-high-q Optical Microcavities Yun-feng Xiao, Chang-ling Zou, Qihuang Gong, Lan Yang, 2020-10-29 Confinement and manipulation of photons using microcavities have triggered intense research interest in both basic and applied physics for more than a decade Prominent examples are whispering gallery microcavities which confine photons by means of continuous total internal reflection along a curved and smooth surface The long photon lifetime strong field confinement and in plane emission characteristics make them promising candidates for enhancing light matter interactions on a chip In this book we will introduce different ultra high Q whispering gallery microcavities and focus on their applications in enhancing light matter interaction such as ultralow threshold microlasing highly sensitive optical biosensing nonlinear optics cavity quantum electrodynamics and cavity optomechanics

Optical Processes In Microcavities Richard K Chang, A J Campillo, 1996-04-12 The dielectric microstructures act as ultrahigh Q factors optical cavities which modify the spontaneous emission rates and alter the spatial distributions of the input and output radiation The editors have selected leading scientists who have made seminal contributions in different aspects of optical processes in microcavities Every attempt has been made to unify the underlying physics pertaining to microcavities of various shapes This book begins with a chapter on the role of microcavity modes with additional chapters on how these microcavity modes affect the spontaneous and stimulated emission rates enhance nonlinear optical processes used in cavity QED and chemical physics experiments aid in single molecule detection influence the design of microdisk semiconductor lasers and how deformed cavities can be treated with classical chaos theory

Handbook of Optical Microcavities Anthony H. W. Choi, 2014-10-06 An optical cavity confines light within its structure and constitutes an integral part of a laser device Unlike traditional gas lasers semiconductor lasers are invariably much smaller in dimensions making optical confinement more critical than ever In this book modern methods that control and manipulate light at the micrometer and nanometer scales by using a variety of cavity geometries and demonstrate optical

resonance from ultra violet UV to infra red IR bands across multiple material platforms are explored The book has a comprehensive collection of chapters that cover a wide range of topics pertaining to resonance in optical cavities and are contributed by leading researchers in the field The topics include theory design simulation fabrication and characterization of micrometer and nanometer scale structures and devices that support cavity resonance via various mechanisms such as Fabry P rot whispering gallery photonic bandgap and plasmonic modes The chapters discuss optical cavities that resonate from UV to IR wavelengths and are based on prominent III V material systems including Al In and Ga nitrides ZnO and GaAs

Spontaneous Emission and Laser Oscillation in Microcavities Hiroyuki Yokoyama, Kikuo Ujihara, 2020-07-09 In spite of the increasing importance of microcavities device physics or the observable phenomena in optical microcavities such as enhanced or inhibited spontaneous emission and its relation with the laser oscillation has not been systematically well described until now *Spontaneous Emission and Laser Oscillation in Microcavities* presents the basics of optical microcavities The volume is divided into ten chapters each written by respected authorities in their areas The book surveys several methods describing free space spontaneous emission and discusses changes in the feature due to the presence of a cavity The effect of dephasing of vacuum fields on spontaneous emission in a microcavity and the effects of atomic broadening on spontaneous emission in an optical microcavity are examined The book details the splitting in transmission peaks of planar microcavities containing semiconductor quantum wells A simple but useful way to consider the change in the spontaneous emission rate from the viewpoint of mode density alteration by wavelength sized cavities is provided Authors also discuss the spontaneous emission in dielectric planar microcavities Spontaneous emission in microcavity surface emitting lasers is covered as are the effects of electron confinement in semiconductor quantum wells wires and boxes also given The volume extends the controlling spontaneous emission phenomenon to laser oscillation Starting from the Fermi golden rule the microcavity laser rate equations are derived and the oscillation characteristics are analyzed Recent progress in optical microcavity experiments is summarized and the applicability in massively optical parallel processing systems and demands for the device performance are explored This volume is extremely useful as a textbook for graduate and postgraduate students and works well as a unique reference for researchers beginning to study in the field

Confined Electrons and Photons Elias Burstein, Claude Weisbuch, 2012-12-06 The optical properties of semiconductors have played an important role since the identification of semiconductors as small bandgap materials in the thinies due both to their fundamental interest as a class of solids baving specific optical propenies and to their many important applications On the former aspect we can cite the fundamental edge absorption and its assignment to direct or indirect transitions many body effects as revealed by exciton formation and photoconductivity On the latter aspect large scale applications such as LEDs and lasers photovoltaic converters photodetectors electro optics and non linear optic devices come to mind The eighties saw a revitalization of the whole field due to the advent of heterostructures of lower dimensionality mainly two dimensional quantum wells which

through their enhanced photon matter interaction yielded new devices with unsurpassed performance Although many of the basic phenomena were evidenced through the seventies it was this impact on applications which in turn led to such a massive investment in fabrication tools thanks to which many new structures and materials were studied yielding further advances in fundamental physics Microcavity Semiconductor Lasers Yong-zhen Huang, Yue-de Yang, 2021-06-28

Microcavity Semiconductor Lasers Explore this thorough overview of integrable microcavity semiconductor lasers and their applications from two leading voices in the field Attracting a great deal of attention over the last decades for their promising applications in photonic integration and optical interconnects microcavity semiconductor lasers continue to develop via advances in fundamental physics theoretical analysis and numerical simulations In a new work that will be of interest to researchers and practitioners alike Microcavity Semiconductor Lasers Principles Design and Applications delivers an application oriented and highly relevant exploration of the theory fabrication and applications of these practical devices The book focuses on unidirectional emission microcavity lasers for photonic integrated circuits including polygonal microresonators microdisk and microring lasers After an introductory overview of optical microcavities for microlasers and detailed information of the lasers themselves including mode structure control and characteristics and lasing properties the distinguished authors discuss fabrication and applications of different microcavity lasers Prospects for future research and potential new applications round out the book Readers will also benefit from the inclusion of A thorough introduction to multilayer optical waveguides the FDTD Method and Pad Approximation and deformed chaos and unidirectional emission microdisk lasers An exploration of mode analysis for triangle and square microresonators similar as FP Cavity Practical discussions of mode analysis and control for deformed square microlasers An examination of hexagonal microcavity lasers and polygonal microcavities along with vertical radiation loss for 3D microcavities Perfect for laser specialists semiconductor physicists and solid state physicists Microcavity Semiconductor Lasers Principles Design and Applications will also earn a place in the libraries of materials scientists and professionals working in the semiconductor and optical industries seeking a one stop reference for integrable microcavity semiconductor lasers **Green Power, Materials and Manufacturing Technology and Applications II**

Shao Bo Zhong, Zhi Gang Liu, 2012-11-12 Selected peer reviewed papers from the 2nd International Conference on Green Power Materials and Manufacturing Technology and Applications GPMMA 2012 July 17 19 2012 Kunming China

Multiparty Secure Quantum and Semiquantum Computations Tianyu Ye, Nanrun Zhou, Mingxing Luo, Amiya Nayak, Xiubo Chen, 2023-11-07 *Electrically Tunable Micromirrors and Microcavities* Wei Liu, 2005 **Dynamics of Semiconductor Microcavities Using Ultrashort Pulse Lasers** June-Koo Rhee, 1995 **Proceedings of Micro- and Nanofabricated Electro-optical Mechanical Systems for Biomedical and Environmental Applications** Society of Photo-optical Instrumentation Engineers, American Society for Laser Medicine and Surgery, 1997 **Laser Optics 2006** Nikolay N. Rosanov, 2007 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 Photonic Bandgap Materials and Devices Ali Adibi,Axel Scherer,Shawn-Yu Lin,2002 *Fundamentals of Photonics* Bahaa E. A. Saleh,Malvin Carl Teich,2007-03-09 Fundamentals of Photonics A complete thoroughly updated full color second edition Now in a new full color edition Fundamentals of Photonics Second Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a logical blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of photons and atoms and semiconductor optics Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography guided wave and fiber optics semiconductor sources and detectors electro optic and acousto optic devices nonlinear optical devices optical interconnects and switches and optical fiber communications Each of the twenty two chapters of the first edition has been thoroughly updated The Second Edition also features entirely new chapters on photonic crystal optics including multilayer and periodic media waveguides holey fibers and resonators and ultrafast optics including femtosecond optical pulses ultrafast nonlinear optics and optical solitons The chapters on optical interconnects and switches and optical fiber communications have been completely rewritten to accommodate current technology Each chapter contains summaries highlighted equations exercises problems and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest *Microresonators as Building Blocks for VLSI Photonics* American Institute of Physics,2004-06-08 The aim of the course was to provide state of the art information in the field of advanced devices for large scale integrated photonics The course focused on the theory and application of optical microresonators for wavelength selection and routing for switching and for high speed modulation Also materials aspects design and manufacturing of integrated optics devices based on these resonators for use in optical communication networks were discussed In particular micro ring and micro disk resonators and photonic bang gap structures were addressed At a more fundamental level some lectures were devoted to promising phenomena that could allow new applications in photonics such as entangled pairs generation and single quantum dot emission in a cavity

International Conference on Material Science and Material Properties for Infrared Optoelectronics ,2003

Photonic Applications in Nonlinear Optics, Nanophotonics, and Microwave Photonics Roberto A. Morandotti,Harry E. Ruda,Jianping Yao,2005 Proceedings of SPIE offer access to the latest innovations in research and technology and are among the most cited references in patent literature Journal of Heat Transfer ,2007

The book delves into Optical Microcavities. Optical Microcavities is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Optical Microcavities, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

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- Chapter 3: Optical Microcavities in Everyday Life
- Chapter 4: Optical Microcavities in Specific Contexts
- Chapter 5: Conclusion

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4. In chapter 3, this book will examine the practical applications of Optical Microcavities in daily life. The third chapter will showcase real-world examples of how Optical Microcavities can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Optical Microcavities in specific contexts. This chapter will explore how Optical Microcavities is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Optical Microcavities. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Optical Microcavities.

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