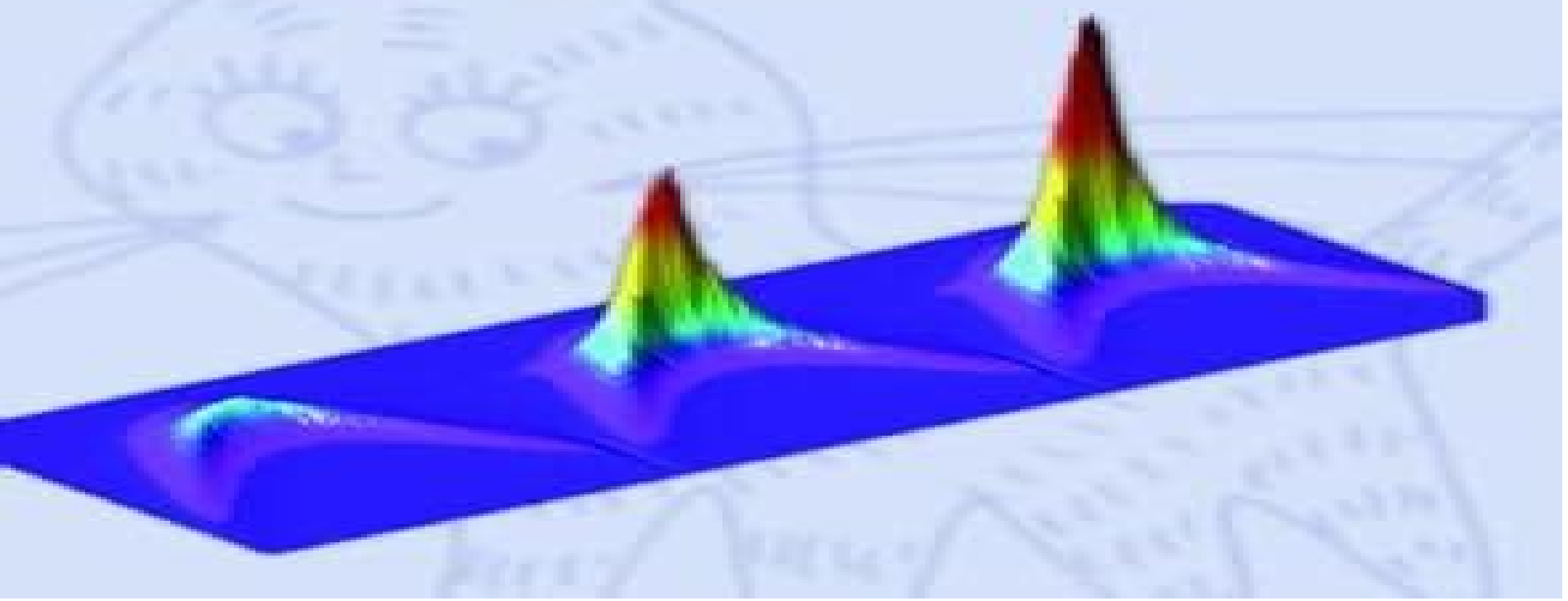


# Microcavities

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Jeremy J. Baumberg  
Guillaume Malpuech  
Fabrice P. Laussy

*Revised Edition*



# Microcavities Series On Semiconductor Science And Technology

**University of Michigan. Division of  
Research Development and  
Administration**



## **Microcavities Series On Semiconductor Science And Technology:**

**Bulletin of the STEFAN UNIVERSITY: Semiconductor Science and Technology—1998; ISSN: 1098-1632.:**

Editors of the Stefan University Press, 1998-09-07 Bulletin of the STEFAN UNIVERSITY Semiconductor Science and Technology 1998 ISSN 1098 1632 Stefan Frontier Conferences Frontier Science Research Conferences FSRC La Jolla California September 7 11 1998 1998 The Stefan University Press      **Microcavities** Alexey Kavokin, Jeremy J. Baumberg, Guillaume Malpuech, Fabrice P. Laussy, 2011-04-27 Rapid development of microfabrication and assembly of nanostructures has opened up many opportunities to miniaturize structures that confine light producing unusual and extremely interesting optical properties This book addresses the large variety of optical phenomena taking place in confined solid state structures microcavities Realisations include planar and pillar microcavities whispering gallery modes and photonic crystals The microcavities represent a unique laboratory for quantum optics and photonics They exhibit a number of beautiful effects including lasing superfluidity superradiance entanglement etc Written by four practitioners strongly involved in experiments and theories of microcavities it is addressed to any interested reader having a general physical background but in particular to undergraduate and graduate students at physics faculties      Physics and Simulation of Optoelectronic Devices ,2001      *Domain Walls* Dennis Meier, Jan Seidel, Marty Gregg, Ramamoorthy Ramesh, 2020 As the first of its kind this book identifies major questions and challenges that will influence research on domain walls in the years to come      Microcavities Alexey V. Kavokin, Jeremy J. Baumberg, Guillaume Malpuech, Fabrice P. Laussy, 2017-04-28 Microcavities are semiconductor metal or dielectric structures providing optical confinement in one two or three dimensions At the end of the 20th century microcavities have attracted attention due to the discovery of a strong exciton light coupling regime allowing for the formation of superposition light matter quasiparticles exciton polaritons In the following century several remarkable effects have been discovered in microcavities including the Bose Einstein condensation of exciton polaritons polariton lasing superfluidity optical spin Hall and spin Meissner effects amongst other discoveries Currently polariton devices exploiting the bosonic stimulation effects at room temperature are being developed by laboratories across the world This book addresses the physics of microcavities from classical to quantum optics from a Boltzmann gas to a superfluid It provides the theoretical background needed for understanding the complex phenomena in coupled light matter systems and it presents a broad overview of experimental progress in the physics of microcavities      Physics, Uspekhi ,2003      Applied Science & Technology Index ,1997      *Special Issue on Microcavities* ,2003      Subject Guide to Books in Print ,1996      Encyclopedia of Modern Optics Robert D. Guenther, Duncan G. Steel, L. P. Bayvel, 2005 Unparalleled reference work for all researchers in field of Optics Fiber Systems Material Science Atomic and Molecular Physics Laser Physics Covers all the sub fields of Optical Physics as well as related fields as Engineering which impact manufacturing and many practical applications Alphabetically arranged for ease of use cross references to aid in tracking down all aspects of a topic under

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