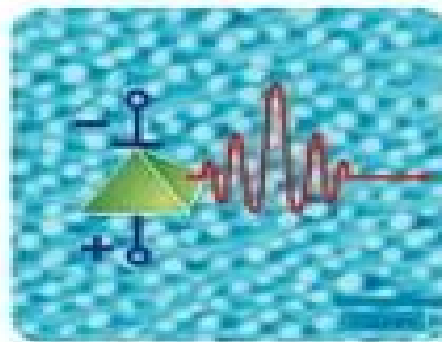
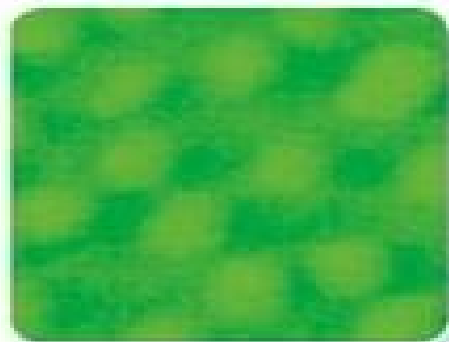
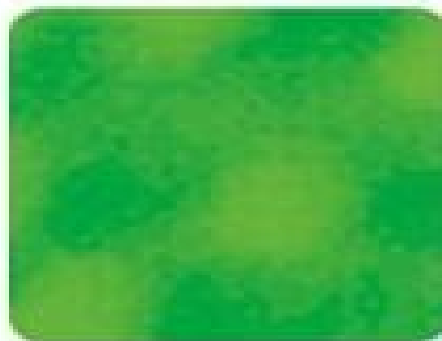


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The Physics and Engineering of Compact Quantum Dot-based Lasers for Biophotonics Edik U. Rafailov, 2013-12-30 Written by a team of European experts in the field this book addresses the physics the principles the engineering methods and the latest developments of efficient and compact ultrafast lasers based on novel quantum dot structures and devices as well as their applications in biophotonics Recommended reading for physicists engineers students and lecturers in the fields of photonics optics laser physics optoelectronics and biophotonics

Applied Nanophotonics Sergey V. Gaponenko, Hilmi Volkan Demir, 2019 An accessible yet rigorous introduction to nanophotonics covering basic principles technology and applications in lighting lasers and photovoltaics Providing a wealth of information on materials and devices and over 150 color figures it is the go to guide for students in electrical engineering taking courses in nanophotonics

Photoactive Semiconductor Nanocrystal Quantum Dots Alberto Credi, 2017-01-20 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field

Vertical External Cavity Surface Emitting Lasers Michael Jetter, Peter Michler, 2021-09-16 *Vertical External Cavity Surface Emitting Lasers* Provides comprehensive coverage of the advancement of vertical external cavity surface emitting lasers Vertical external cavity surface emitting lasers VECSELs emit coherent light from the infrared to the visible spectral range with high power output Recent years have seen new device developments such as the mode locked integrated MIXSEL and the membrane external cavity surface emitting laser MECSEL expand the application of VECSELs to include laser cooling spectroscopy telecommunications biophotonics and laser based displays and projectors In *Vertical External Cavity Surface Emitting Lasers*

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New Type of sub-THz Oscillator and Amplifier Systems Based on Helical-Type Gyro-TWTs Marek, Alexander, 2023-01-26 This work presents the development of a new sub THz source for the generation of trains of coherent high power ultra short pulses at 263 GHz via passive mode locking of two coupled helical gyro TWTs For the first time it is shown that the operation of such passive mode locked helical gyro TWTs in the hard excitation regime is of particular importance to reach the optimal coherency of the generated pulses This could be of particular interest for some new time domain DNP NMR methods

Coherent Laser Beam Combining Arnaud Brignon, 2013-11-13 Laser beam combining techniques allow increasing the power of lasers far beyond what it is possible to obtain from a single conventional laser One step further coherent beam combining CBC also helps to maintain the very unique properties of the laser emission with respect to its spectral and spatial properties Such lasers are of major interest for many applications including industrial environmental defense and scientific applications Recently significant progress has been made in coherent beam combining lasers with a total output power of 100 kW already achieved Scaling analysis indicates that further increase of output power with excellent beam quality is feasible by using existing state of the art lasers Thus the knowledge of coherent beam combining techniques will become crucial for the design of next generation highpower lasers The purpose of this book is to present the more recent concepts of coherent beam combining by world leader teams in the field

Fiber Lasers Oleg G. Okhotnikov, 2012-06-26 A comprehensive account of the latest developments and applications in this rapidly developing field covering a wide range of topics such as power scaling and short pulse generation dispersion management and modeling broadband supercontinuum generation and wavelength tailoring The book brings together contributions from the world s leading experts at major collaborative research centers throughout Europe Australia Russia and the USA Each chapter presents a tutorial style introduction to the selected topic suitable for scientists researchers and experts as well as graduate and postgraduate students with a basic background in optics

Attosecond and XUV Physics Thomas Schultz, Marc Vrakking, 2013-11-13 This book provides fundamental knowledge in the fields of attosecond science and free electron lasers

based on the insight that the further development of both disciplines can greatly benefit from mutual exposure and interaction between the two communities With respect to the interaction of high intensity lasers with matter it covers ultrafast lasers high harmonic generation attosecond pulse generation and characterization Other chapters review strong field physics free electron lasers and experimental instrumentation Written in an easy accessible style the book is aimed at graduate and postgraduate students so as to support the scientific training of early stage researchers in this emerging field Special emphasis is placed on the practical approach of building experiments allowing young researchers to develop a wide range of scientific skills in order to accelerate the development of spectroscopic techniques and their implementation in scientific experiments The editors are managers of a research network devoted to the education of young scientists and this book idea is based on a summer school organized by the ATTOFEL network

The Photophysics behind Photovoltaics and Photonics Guglielmo Lanzani, 2012-10-26 From a leading researcher in optical spectroscopy and electronic properties of novel semiconductors comes this much needed toolbox title to understand the concepts behind the spectroscopy of advanced organic materials and how they work The book thus provides basic and practical knowledge on material photophysics for planning carrying out and understanding experiments in spectroscopy It contains a collection of simple practical rules for data analysis and interpretation together with a list of experimental techniques including the latest methods Each topic is complemented by examples taken from forefront research on nanomaterials photovoltaics and photonics and each chapter includes a discussion examples topical boxes tables and figures The whole is rounded off by a bibliography for further reading major references and appendixes containing theoretical derivation and numerical code The result is a quick guide for the spectroscopist who needs to grasp the concept of the experiments

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