

Integrated High Power Vcsel Systems Philips Photonics

VCSEL Industry VCSELS Vertical-cavity Surface-emitting Lasers Advanced Concepts for High-Power VCSELS and 2-Dimensional VCSEL Arrays Vertical-cavity Surface-emitting Lasers VIII Nanophotonics for Communication High Speed Vertical Cavity Surface Emitting Lasers with Injection Locking Optoelectronic Materials and Devices for Optical Communications Micro-optics, VCSELS, and Photonic Interconnects VCSELS and Optical Interconnects Physics and Simulation of Optoelectronic Devices Semiconductor Optoelectronic Devices for Lightwave Communication LEOS ... Japanese Journal of Applied Physics Diffractive and Holographic Technologies for Integrated Photonic Systems Integrated Optics Devices Optoelectronic Integrated Circuits Organic Photonic Materials and Devices Combinatorial and Composition Spread Techniques in Materials and Device Development WDM and Photonic Switching Devices for Network Applications Babu Dayal Padullaparthi Rainer Michalzik Kent D. Choquette Zhihao Zhang Shinji Tsuji Hugo Thienpont Joachim Piprek Richard Lee Sutherland

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a hands on reference to the technical commercial and industrial aspects of vcsel technology in vcsel industry communication and sensing a team of distinguished researchers and manufacturing professionals deliver a thorough and practical reference guide to vertical cavity surface emitting lasers vcseles for young entrepreneurs investors venture capitalists and researchers the authors offer comprehensive descriptions of the technology involved as well as a robust exploration of the industry and commercial

landscape in which vcsels exist the book contains numerous illustrations and schematics of the anatomy of vcsel product developments and an insightful discussion of the proliferation of vcsels in photonics and optics there is also a dedicated section on photoreceivers used for vcsel based data communications and sensing vcsel industry communication and sensing provides readers with an accessible commercial perspective of an important technology while offering just enough technical detail to make sense of the subject the book also includes a thorough introduction to vcsels including discussions of semiconductor lasers materials wavelengths and why vcsels are attractive for photonics applications comprehensive explorations of the vcsel industry including market demands an industry landscape descriptions of commercial products based on vcsels and business models practical discussions of vcsels for data communication including high speed vcsels gain and parasitic effects on bandwidth and speed and form factors and standards in depth examinations of vcsel arrays for sensing including high power vcsels in consumer electronics perfect for early career researchers engineers entrepreneurs investors and managers vcsel industry communication and sensing will also prove to be an invaluable addition to the libraries of executives from across the semiconductor industry

the huge progress which has been achieved in the field is covered here in the first comprehensive monograph on vertical cavity surface emitting lasers vcsels since eight years apart from chapters reviewing the research field and the laser fundamentals there are comprehensive updates on red and blue emitting vcsels telecommunication vcsels optical transceivers and parallel optical links for computer interconnects entirely new contributions are made to the fields of vectorial three dimensional optical modeling single mode vcsels polarization control polarization dynamics very high speed design high power emission use of high contrast gratings gainnassb long wavelength vcsels optical video links vcsels for optical mice and sensing as well as vcsel based laser printing the book appeals to researchers optical engineers and graduate students

we have developed high power vertical cavity surface emitting lasers vcsels for multimode or single mode operation we have characterized new cavity designs for individual lasers and 2 dimensional vcsel arrays to maximize output power using broad area high power vcsels under pulsed excitation we have demonstrated the triggering of a photoconductive semiconductor switch pcss with a vcsel we also have developed designs for high output power in a single mode the first approach is to engineer the oxide aperture profile to influence the optical confinement and thus modal properties a second approach focuses on leaky mode concepts using lateral modification of the cavity resonance to provide the lateral refractive index difference to this end we have developed a regrowth process to fabricate single mode vcsels the overall objective of this work was to develop high power single mode or multimode sources appropriate for many applications leveraging the many inherent advantages of vcsels

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