

Integrated High Power Vcsel Systems Philips Photonics

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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 vcsels 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

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

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optical networking with incredible amounts of bandwidth for relatively low cost is the key technology for satisfying the bandwidth demand required for dramatic growth in internet this selected readings includes a collection of papers describing issues from optical components such as amplifiers to management of optical

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