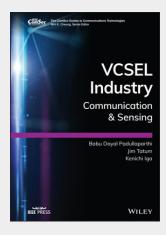
Vcsel Industry

Communication and Sensing

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.

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