

Sic Power Devices And Modules Rohm Semiconductor

VCSEL Industry Electric Drive System Design for Electric Vehicles Asia Electronics Industry Design and Control of Power Converters 2020 Display Device Plunkett's InfoTech Industry Almanac Journal of Electronic Engineering Plunkett's Engineering & Research Industry Almanac 2007: Engineering & Research Industry Market Research, Statistics, Trends & Leading Companies JEE, Journal of Electronic Engineering Asian Sources Electronic Components Electronics World Moody's International Manual Discrete Semiconductors Electronic Design EDN, Electrical Design News EDN LexisNexis Corporate Affiliations Electronic Engineering Japan Electronics Buyers' Guide Mergent International Manual Babu Dayal Padullaparthi Yunqi Zheng Manuel Arias Jack W. Plunkett Jack W. Plunkett

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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

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electric drive system design for electric vehicles bridges the gap between specialized research on electric vehicle ev electric drive system design principles and developing industry driven solutions it addresses best practices for ensuring the performance and reliability of ev electric drive systems including battery motor and power electronic components based on the author s hands on experience the book takes a multidisciplinary approach to ev drive system design combining electrical engineering thermal design mechanical engineering and manufacturing expertise to deliver efficient reliable and high performance solutions it includes case studies and practical examples from the industry reviewing state of the art electric system technologies in current evs such as lucid tesla chevrolet vw nissan and more readers will also obtain insight into how fundamental physics plays a critical role in those technological advancements and innovations this book will benefit academic researchers and graduate students studying power electronic packaging and electric drive systems it will also serve industry professionals involved in ev design and general power electronic system packaging

in this book nine papers focusing on different fields of power electronics are gathered all of which are in line with the present trends in research and industry given the generality of the special issue the covered topics range from electrothermal models and losses models in semiconductors and magnetics to converters used in high power applications in this last case the papers address specific problems such as the distortion due to zero current detection or fault investigation using the fast fourier transform all being focused on analyzing the topologies of high power high density applications such as the dual active bridge or the h bridge multilevel inverter all the papers provide enough insight in the analyzed issues to be used as the starting point of any research experimental or simulation results are presented to validate and help with the understanding of the proposed ideas to summarize this book will help the reader to solve specific problems in industrial equipment or to increase their knowledge in specific fields

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