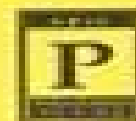


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Guest Editors

21-22 January 1991
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Volume 1417

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Sherman Karp, Larry B. Stotts



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Free-Space Laser Communication Technologies XXIV Hamid Hemmati, Don M. Boroson, 2012-02-10 Includes Proceedings Vol 7821 *Free-space Laser Communication Technologies*, 2006 **Free-space Laser Communication Technologies XXII** Hamid Hemmati, 2010 Includes Proceedings Vol 7821 Near-Earth Laser Communications, Second Edition Hamid Hemmati, 2020-09-20 This reference provides an overview of near Earth laser communication theory developments including component and subsystem technologies fundamental limitations and approaches to reach those limits It covers basic concepts and state of the art technologies emphasizing device technology implementation techniques and system trades The authors discuss hardware technologies and their applications and also explore ongoing research activities and those planned for the near future This new edition includes major to minor revisions with technology updates on nearly all chapters

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Adaptive Optics Theory and Its Application in Optical Wireless Communication Xizheng Ke, Pengfei Wu, 2022-03-23 This book introduces in detail the theory of adaptive optics and its correction technology for light wave distortion in wireless optical communication It discusses the adaptive control algorithm of wavefront distortion proportional integral control algorithm and iterative control algorithm and double fuzzy adaptive PID control algorithm It also covers the

SPGD algorithm of adaptive optics correction deformable mirrors eigenmode method of wavefront aberration correction vortex beam wavefront detecting wavefront aberration correction liquid crystal spatial light modulator wavefront correction different wavelengths of Gaussian beam transmission wavefront differences in the atmospheric turbulence and correction and with wavefront tilt correction adaptive optics wavefront aberration correction Various distortion correction methods are verified by experiments and the experimental results are analyzed This book is suitable for engineering and technical personnel engaged in wireless optical communication college teachers graduate students and senior undergraduate students

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Murat Uysal, Carlo Capsoni, Zabih Ghassemlooy, Anthony Boucouvalas, Eszter Udvary, 2016-08-25 This book focuses on optical wireless communications OWC an emerging technology with huge potential for the provision of pervasive and reliable next generation communications networks It shows how the development of novel and efficient wireless technologies can contribute to a range of transmission links essential for the heterogeneous networks of the future to support various communications services and traffic patterns with ever increasing demands for higher data transfer rates The book starts with a chapter reviewing the OWC field which explains different sub technologies visible light ultraviolet UV and infrared IR communications and introduces the spectrum of application areas indoor vehicular terrestrial underwater intersatellite deep space etc This provides readers with the necessary background information to understand the specialist material in the main body of the book which is in four parts The first of these deals with propagation modelling and channel characterization of OWC channels at different spectral bands and with different applications The second starts by providing a unified information theoretic treatment of OWC and then discusses advanced physical layer methodologies including but not limited to advanced coding modulation diversity cooperation and multi carrier techniques and the ultimate limitations imposed by practical constraints On top of the physical layer come the upper layer protocols and cross layer designs that are the subject of the third part of the book The last part of the book features a chapter by chapter assessment of selected OWC applications Optical Wireless Communications is a valuable reference guide for academic researchers and practitioners concerned with the future development of the world's communication networks It succinctly but comprehensively presents the latest advances in the field

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Deep Space Optical Communications Hamid Hemmati,2006-06-05 A quarter century of research into deep space and near Earth optical communications This book captures a quarter century of research and development in deep space optical communications from the Jet Propulsion Laboratory JPL Additionally it presents findings from other optical communications research groups from around the world for a full perspective Readers are brought up to date with the latest developments in optical communications technology as well as the state of the art in component and subsystem technologies fundamental limitations and approaches to develop and fully exploit new technologies The book explores the unique requirements and technologies for deep space optical communications including Technology overview link and system design drivers Atmospheric transmission propagation and reception issues Flight and ground terminal architecture and subsystems Future prospects and applications including navigational tracking and light science This is the first book to specifically address deep space optical communications With an increasing demand for data from planetary spacecraft and other sources it is essential reading for all optical communications telecommunications and system engineers as well as technical managers in the aerospace industry It is also recommended for graduate students interested in deep space communications

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Fundamentals of Electro-Optic Systems Design Sherman Karp,Larry B. Stotts,2012-12-20 Using fundamentals of communication theory thermodynamics information theory and propagation theory this book explains the universal principles underlying a diverse range of electro optical systems From fiber optics and infra red imaging to free space communications and laser remote sensing the authors relate key concepts in science and device engineering to practical systems issues A broad spectrum of coherent and incoherent imaging and communications systems is considered accompanied by many real world examples The authors also present new insights into LIDAR and free space communications and imaging providing practical guidance on identifying the fundamental limitations of transmission and imaging through deleterious channels Accompanied by online examples of processed images and videos this uniquely tailored guide to the fundamental principles underlying modern electro optical systems is an essential reference for all practising engineers and academic researchers in optical engineering

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