

Photonics Applications in Astronomy, Communications, Industry, and High-Energy Physics Experiments 2011

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Mueller-Matrix Tomography of Biological Tissues and Fluids Zhengbing Hu, Yuriy A. Ushenko, Iryna V. Soltys, Oleksandr V. Dubolazov, M. P. Gorsky, Oleksandr V. Olar, Liliya Yu. Trifonyuk, 2024-01-03 This book presents experimental investigations and digital image processing highlighting the interaction of polarized radiation with phase inhomogeneous and optically anisotropic biological layers The promising and efficient use of vector parametric description of the formation of polarization inhomogeneous object fields is noted Applications of a set of Mueller matrix polarimetry methods are highlighted The book includes structural and logical scheme of multi parameter singular interference and layer by layer Stokes polarimetric polarization correlation study of the structure of distributions of the number of singularities maps of local contrast of interference distributions and layer by layer maps of microscopic polarization azimuth and ellipticity determination of relationships between changes in the magnitude of statistical parameters characterizing polarization correlation distributions and pathology of prostate tumors **Advanced System Development Technologies II** Mykhailo Bezuglyi, Nadiia Bouraou, Volodymyr Mykytenko, Grygoriy Tymchyk, Artur Zaporozhets, 2025-03-18 This book is the second in the series Advanced System Development Technologies Studies in Systems Decision and Control As in the previous volume the sections of the book are grouped into three directions optoelectronic technologies medical technologies and technological support The prerequisites for solving the problem of increasing the efficiency of mechanical assembly production are presented based on the creation of a new method and system for technological preparation of small scale production in instrument engineering which takes into account the dominant influence of assembly processes on the time and cost of instrument manufacturing A new structure and sequence for the technological preparation of instrument production with a formalized relationship between machining and assembly production are proposed A new model of an assembled product in instrument engineering has been developed taking into account the labor intensity and specifics of assembly adjustment and control measurement operations as well as methods for automated design of technological assembly processes Additionally a functional model for forming the product structure based on the labor intensity of manufacturing assembly units is proposed allowing for the formulation of a substantiated plan for the production of parts A mathematical model of the assembly sequence has also been developed enabling the construction of an assembly sequence considering organizational and technical factors **Advances in Information and Communication Technologies** Mykhailo Ilchenko, Leonid Uryvsky, Larysa Globa, 2019-03-30 This book highlights the most important research areas in Information and Telecommunication Technologies as well as Radio Electronics The respective chapters share in depth and extended results in these areas with a view to resolving practically relevant and challenging issues including management services and quality control improved estimates for reliability indicators the cryptographic technology Blockchain research and forecasting of technological characteristics satellite communications multiservice transmission systems and effective technological

solutions These results can be used in the implementation of novel systems and to promote the exchange of information in e societies Given its scope the book offers a valuable resource for scientists lecturers specialists working at enterprises graduate and undergraduate students who engage with problems in Information and Telecommunication Technologies as well as Radio Electronics *Laser Polarimetry of Biological Tissues* Zhengbin Hu,I.L. Bezhenar,O.Y. Vanchulyak,A. G. Ushenko,Yu. A. Ushenko,Mykhailo P. Gorsky,Igor Meglinski,2023-06-16 This book highlights the results of numerical computer aided smart methods as part of a comprehensive statistical correlated and fractal analysis of laser polarimetry It includes a comprehensive approach to differentiation of lifelong or postmortem origin of injuries and determination of their antiquity based on the analysis of statistical and spatiotemporal frequency evolution of photometric polarization and phase parameters of laser images of histological sections of the skin of biomannequins It discusses the relationship between the coordinate distributions of the intensity of laser images from skin tissues of biomannequins and the nature of its damage It presents the analysis of relationships between changes in the mean and variance of coordinate distributions of azimuths and ellipticity of polarization images of histological skin sections and the time intervals after injury Complex differentiation of lifelong and postmortem skin injuries of biomannequins and establishment of their time intervals throughout the entire monitoring interval of changes in the mean and variance of coordinate distributions of phase shifts between orthogonal components of the amplitude of laser images of a series of corresponding histological sections are also presented in this book

Signal Processing in Noise Waveform Radar Krzysztof Kulpa,2013-07-01 This book is devoted to the emerging technology of noise waveform radar and its signal processing aspects It is a new kind of radar which use noise like waveform to illuminate the target The book includes an introduction to basic radar theory starting from classical pulse radar signal compression and wave radar The book then discusses the properties difficulties and potential of noise radar systems primarily for low power and short range civil applications The contribution of modern signal processing techniques to making noise radar practical are emphasized and application examples are given Space Robotics Xiu Tian Yan,Gianfranco Visentin,2024-12-11 This book presents the latest research findings from leading space robotic researchers around the world together with contributions from leading space systems industrialists on the practical aspects of research and development in space robotics The book also considers future challenges and trends to provide a look ahead for space robotics The European Commission set up the Space Robotic Technologies Strategic Research Cluster SRC in its flagship funding programme Horizon 2020 with the goal of enabling major advances in strategic key points of Space Robotics Technologies in order to improve European competitiveness Space robotics have advanced rapidly in recent years as reflected in recent successful space exploration missions like NASA s successful landing and operation of the Curiosity rover on Mars and the European Space Agency s equally successful landing of its Philae probe on comet 67P Churyumov Gerasimenko These advances have inspired many young graduates and undergraduates to study space robotics **Phase Mapping of Human Biological**

Tissues Zhengbin Hu,V. T. Bachinsky,O. Y. Vanchulyak,Iryna V. Soltys,Yu. A. Ushenko,A. G. Ushenko,Igor Meglinski,2023-06-20 This book presents numerical computer aided smart methods as part of a comprehensive statistical correlation and fractal analysis of laser polarimetry data It highlights relationships between polarization azimuth distributions polarization ellipticities Stokes vector parameters Mueller matrix elements parameters of laser images of biological tissues of a human corpse in different spectral ranges and temporal dynamics of their postmortem morphological changes The book discusses the effectiveness of correlation analysis of two dimensional distributions of polarization inhomogeneous images of histological sections of the main types of biological tissues in determining the time of death It also discusses the development of basic principles of phase measurements phasometry of microscopic images of biological tissues to determine the age of death and the time of hematoma formation Also presented in the book are possibilities of complex laser spectral photopolarimetry images of histological sections of biological tissues of human corpse in different spectral regions with the simultaneous development and substantiation of a set of statistical and correlational criteria for objective determination of the time of death Novel ideas for accelerators, particle detection and data challenges at future colliders Alessandro Tricoli,Patrizia Azzi,Petra Merkel,Vladimir Shiltsev,2023-07-21 *Energy Research Abstracts* ,1993 **Energy Research Abstracts** ,1995 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

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