

GAME-CHANGING EUROPEAN X-RAY OPTICS TECHNOLOGY

Innovation by ESA-funded European consortium enables largest X-ray optics ever built



know space

A pan-European consortium of industry and research organisations is leveraging semiconductor manufacturing capabilities to achieve a 2-order of magnitude improvement in space X-ray telescope optics, funded by ESA's Science Core Technology Programme

LEVERAGING COLLABORATION ACROSS EUROPE

- A pan-European collaborative ecosystem of SMEs leveraging spin-in of non-space technologies
- 100+ jobs supported across the ATHENA optics supply chain
- Industrial production of low-cost components for space

CREATING COMMERCIAL OPPORTUNITIES

- Recurring business (space & non-space)
- Achieved a TRL of 5/6
- 30+ new partnerships (industry & academia)
- New innovative mass production process
- New medical applications being developed in radiotherapy (e.g. Lense lens)
- New applications for X-ray materials analysis (e.g. medical, semiconductor)

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MODULAR SILICON
PORE OPTICS



TECHNOLOGY
SPIN-IN



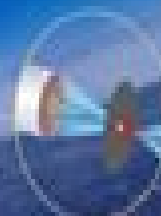
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ESA's Hot & Energetic
Universe Explorer



ARCUS
NASA's X-ray space
observatory



NEXT GENERATION
X-RAY MISSIONS



MEDICAL &
SEMICONDUCTOR
APPLICATIONS

EXPLOITING EUROPEAN TECHNOLOGY LEADERSHIP

- Enables a new scale of space X-ray telescopes ATHENA offers a 2-order of magnitude improvement in performance over existing space missions, comparable to other Great Observatories (e.g. ALMA, JWST)
- Elevated European competitiveness
- Spin-out of SPD technology for semiconductor and medical applications



• THE EUROPEAN SPACE AGENCY

Optics Yesterdays Science Todays Technology

R R Bowker Publishing



Optics Yesterdays Science Todays Technology:

Free Space Optical Networks for Ultra-Broad Band Services Stamatios V. Kartalopoulos, 2011-09-09 This book provides a comprehensive description of an optical communications technology known as free space optical a next generation communications network that uses optical signals through the atmosphere instead of fiber RF or microwaves This technology potentially offers more complex ultrabandwidth communication services simultaneously to multiple users and in a very short time compared to fiber optic technology This text presents established and new advancements drawn from the latest research and development in components networking operation and practices This book describes the FSO network concepts in simple language It provides comprehensive coverage in an easy to understand progressive style that starts from the physics of the atmosphere and how it affects optical communications continues with the design of a network node and concludes with fiberless network applications from point to point to mesh topology Important areas discussed include Propagation of light in the atmosphere and phenomena that affect light propagation FSO transceiver design Point to point FSO systems Ring FSO systems Mesh FSO systems and integrating the Mesh FSO with the public network WDM Mesh FSO FSO network security FSO specific applications To meet the needs of both academia and industry key mathematical formulas are presented along with descriptions while extensive mathematical analyses are minimized or avoided Free Space Optical Networks for Ultra Broad Band Services serves as an ideal text for network communication professionals who enter the free space optical communication field graduate students majoring in optical communications optical communication engineers researchers managers and consultants

Scientific and Technical Revolution: Yesterday, Today and Tomorrow Elena G. Popkova, Bruno S. Sergi, 2020-06-05 This book presents a system view of the digital scientific and technological revolution including its genesis and prerequisites current trends as well as current and potential issues and future prospects It gathers selected research papers presented at the 12th International Scientific and Practical Conference organized by the Institute of Scientific Communications The conference Artificial Intelligence Anthropogenic Nature vs Social Origin took place on December 5 7 2019 in Krasnoyarsk Russia The book is intended for academic researchers and independent experts studying the social and human aspects of the Fourth Industrial Revolution and the associated transition to the digital economy and Industry 4 0 as well as the creators of the legal framework for this process and its participants entrepreneurs managers employees and consumers It covers a variety of topics including intelligent technologies and artificial intelligence the digital economy the social environment of the Fourth Industrial Revolution and its consequences for humans the regulatory framework of the Fourth Industrial Revolution and the green consequences prospects and financing of the Fourth Industrial Revolution

Imaging the Brain with Optical Methods Anna W. Roe, 2009-11-11 Monitoring brain function with light in vivo has become a reality The technology of detecting and interpreting patterns of reflected light has reached a degree of maturity that now permits high spatial and temporal resolution visualization at both the systems and cellular levels There

now exist several optical imaging methodologies based on either hemodynamic changes in nervous tissue or neurally induced light scattering changes that can be used to measure ongoing activity in the brain. These include the techniques of intrinsic signal optical imaging, near infrared optical imaging, fast optical imaging based on scattered light, optical imaging with voltage sensitive dyes, and two photon imaging of hemodynamic signals. The purpose of this volume is to capture some of the latest applications of these methodologies to the study of cerebral cortical function. This volume begins with an overview and history of optical imaging and its use in the study of brain function. Several chapters are devoted to the method of intrinsic signal optical imaging, a method used to record the minute changes in optical absorption due to hemodynamic changes that accompanies cortical activity. Since the detected hemodynamic changes are highly localized, this method has excellent spatial resolution, 100 μm , a resolution sufficient for visualization of fundamental modules of cerebral cortical function.

Physics Matters! John Owen Edward Clark, 2001. Profiles major physicists and their breakthroughs throughout history and explores key concepts, innovators, and experiments. Science and Technology Policies, Yesterday, Today, and Tomorrow

Gabor Strasser, Eugene M. Simons, 1973. **Nonlinear Meta-Optics** Costantino De Angelis, Giuseppe Leo, Dragomir N. Neshev, 2020-05-20. This book addresses fabrication as well as characterization and modeling of semiconductor nanostructures in the optical regime with a focus on nonlinear effects. The visible range as well as near and far infrared spectral region will be considered with a view to different envisaged applications. The book covers the current key challenges of the research in the area including exploiting new material platforms, fully extending the device operation into the nonlinear regime, adding reconfigurability to the envisaged devices, and proposing new modeling tools to help in conceiving new functionalities. Explores several topics in the field of semiconductor nonlinear nanophotonics including fabrication, characterization, and modeling of semiconductor nanostructures in the optical regime with a focus on nonlinear effects. Describes the research challenges in the field of optical metasurfaces in the nonlinear regime. Reviews the use and achievements of all dielectric nanoantennas for strengthening the nonlinear optical response. Describes both theoretical and experimental aspects of photonic devices based on semiconductor optical nanoantennas and metasurfaces. Gathers contributions from several leading groups in this research field to provide a thorough and complete overview of the current state of the art in the field of semiconductor nonlinear nanophotonics.

Costantino De Angelis has been full professor of electromagnetic fields at the University of Brescia since 1998. He is an OSA Fellow and has been responsible for several university research contracts in the last 20 years within Europe, the United States, and Italy. His technical interests are in optical antennas and nanophotonics. He is the author of over 150 peer-reviewed scientific journal articles. Giuseppe Leo has been a full professor in physics at Paris Diderot University since 2004 and in charge of the nonlinear devices group of MPQ Laboratory since 2006. His research areas include nonlinear optics, micro and nano photonics, and optoelectronics with a focus on AlGaAs platform. He has coordinated several research programs and

coauthored 100 peer reviewed journal articles 200 conference papers 10 book chapters and also has four patents Dragomir Neshev is a professor in physics and the leader of the experimental photonics group in the Nonlinear Physics Centre at Australian National University ANU His activities span over several branches of optics including nonlinear periodic structures singular optics plasmonics and photonic metamaterials He has coauthored 200 publications in international peer reviewed scientific journals NBS Authorizations United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 1986 *Children's Books in Print* R R Bowker Publishing, Bowker, 1999-12 **Popular Nonfiction Authors for Children** Margaret Coggins, Jane H. Imber, Flora R. Wyatt, 1998-02-15 Introduce students to some of today's best nonfiction authors and their writing and promote nonfiction reading to young learners Engaging biographical sketches of 65 current nonfiction authors some of them award winners are accompanied by selective annotated bibliographies for further reading In addition author photos and an author message to students enhance the experience Biographies outline the childhoods of the authors how they became writers and how they go about their work A detailed subject index allows you to plan thematic units of study and to assist students in finding reading material that matches their interests A diversity of current authors and subjects are represented in this useful work

Research Methods in Building Science and Technology Rahman Azari, Hazem Rashed-Ali, 2021-09-09 This book covers the range of methodological approaches methods and tools currently used in various areas of building science and technology research and addresses the current lack of research method literature in this field The book covers the use of measurement based methods in which data is collected by measuring the properties and their variations in actual physical systems simulation based methods which work with models of systems or processes to describe examine and analyze their behaviors performances and operations and data driven methodologies in which data is collected via measurement or simulation to identify and examine the associations and patterns and predict the future in a targeted system The book presents a survey of key methodologies in various specialized areas of building science and technology research including window systems building enclosure energy performance lighting and daylighting computational fluid dynamics indoor and outdoor thermal comfort and life cycle environmental impacts Provides advanced insight into the research methods and presents the key methodologies within the field of building science and technology Reviews simulation based and experimentation field based methods of data collection and analysis in diverse areas of building science and technology such as energy performance window and enclosure studies environmental LCA daylighting CFD and thermal comfort Provides a range of perspectives from building science faculty and researcher contributors with diverse research interests Appropriate for use in university courses **DWDM** Stamatios V. Kartalopoulos, 2002-10-09 An A to Z look at an increasingly important technology DWDM The race for unprecedented bandwidth is on and DWDM Dense Wave length Division Multiplexing is opening the way DWDM is the technology that allows multiple streams of data to flow in one optical fiber of optical communication network DWDM is

the key technology at the heart of new systems and networks that offers more bandwidth at less cost Soon DWDM promises to change bandwidth from a premium to a commodity item DWDM Networks Devices and Technology provides a comprehensive treatment of DWDM its technology systems and networks as well as engineering design It explains how DWDM works how it is used in system design how optical network architecture can benefit from DWDM and what the design issues are Written by an expert in the field the book covers Current telecommunication networks and their issues Current telecommunication systems and networks New and emerging photonic technologies in development Optical and photonic physics that describe DWDM components the building blocks of DWDM and how they are used New optical systems devices and networks that are replacing electronics How optical and photonic devices are used in photonic systems How DWDM systems are engineered and constructed using photonic components The strengths faults efficiencies and issues relevant to DWDM systems and networks New emerging technologies Suitably detailed yet clear and concise this is a comprehensive reference that makes this new technology wholly accessible to both practicing engineers and students

Modern Children's Literature Catherine Butler, Kimberly Reynolds, 2014-12-12 An established introductory textbook that provides students with a guide to developments in children s literature over time and across genres This stimulating collection of critical essays written by a team of subject experts explores key British American and Australian works from picture books and texts for younger children through to graphic novels and young adult fiction It combines accessible close readings of children s texts with informed examinations of genres issues and critical contexts making it an essential practical book for students This is an ideal core text for dedicated modules on Children s literature which may be offered at the upper levels of an undergraduate literature or education degree In addition it is a crucial resource for students who may be studying children s literature for the first time as part of a taught postgraduate degree in literature or education New to this Edition Revised and updated throughout in light of recent children s books and the latest research Includes new coverage of key topics such as canon formation fantasy and technology Features an essay on children s poetry by the former Children s Laureate Michael Rosen

Subject Guide to Books in Print ,1991 **Subject Guide to Children's Books In Print, 1996** R R Bowker Publishing,1996 *The Role of Science and Technology in Competitiveness* United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Science, Research, and Technology,1987 *Children's Books in Print, 2007* ,2006 *Microlithography* Bruce W. Smith, Kazuaki Suzuki, 2020-05-01 The completely revised Third Edition to the bestselling *Microlithography Science and Technology* provides a balanced treatment of theoretical and operational considerations from fundamental principles to advanced topics of nanoscale lithography The book is divided into chapters covering all important aspects related to the imaging materials and processes that have been necessary to drive semiconductor lithography toward nanometer scale generations Renowned experts from the world s leading academic and industrial organizations have provided in depth coverage of the technologies involved in optical deep ultraviolet DUV

immersion multiple patterning extreme ultraviolet EUV maskless nanoimprint and directed self assembly lithography together with comprehensive descriptions of the advanced materials and processes involved New in the Third Edition In addition to the full revision of existing chapters this new Third Edition features coverage of the technologies that have emerged over the past several years including multiple patterning lithography design for manufacturing design process technology co optimization maskless lithography and directed self assembly New advances in lithography modeling are covered as well as fully updated information detailing the new technologies systems materials and processes for optical UV DUV immersion and EUV lithography The Third Edition of Microlithography Science and Technology authoritatively covers the science and engineering involved in the latest generations of microlithography and looks ahead to the future systems and technologies that will bring the next generations to fruition Loaded with illustrations equations tables and time saving references to the most current technology this book is the most comprehensive and reliable source for anyone from student to seasoned professional looking to better understand the complex world of microlithography science and technology

In Defence of Science Jack W. Grove, 1989-12-15 Science holds a central role in the modern world yet its complex interrelationships with nature technology and politics are often misunderstood or seen from a false perspective In a series of essays that make extensive use of original work by sociologists historians and philosophers of science J W Grove explores the roles and relationships of science in modern technological society Modern Science can be viewed from four related perspectives It is an expression of human curiosity a passion to understand the natural world what it is made of how it is put together and how it works It is a body of practice a set of ways of finding out that distinguish it from other realms of inquiry It is a profession a body of men and women owing allegiance to the pursuit of knowledge and for those people a career And it is a prescriptive enterprise in that the increase of scientific understanding makes it possible to put nature to use in new kinds of technology Each of these aspects of science is today the focus of critical scrutiny and often outright hostility With many examples Grove exposes the threats to science today its identification with technology its subordination to the state the false claims made in its name and the popular intellectual forces that seek to denigrate it as a source of human understanding and progress

Excel Science Study Guide, Years 7-8 Nicholas Pefani, 2005 Government and Science United States. Congress. House. Committee on Science and Astronautics, 1964 Committee Serial No 8 Reviews national priorities in applied and basic research educational and manpower needs and impact of Federal research policy and support on private industry universities foundations and government agencies

Enjoying the Melody of Phrase: An Psychological Symphony within **Optics Yesterdays Science Todays Technology**

In some sort of consumed by screens and the ceaseless chatter of immediate interaction, the melodic splendor and psychological symphony produced by the published term usually disappear in to the background, eclipsed by the constant sound and distractions that permeate our lives. But, located within the pages of **Optics Yesterdays Science Todays Technology** a wonderful literary treasure brimming with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, this captivating masterpiece conducts visitors on a psychological trip, well unraveling the concealed melodies and profound influence resonating within each cautiously constructed phrase. Within the depths of the touching review, we can explore the book is central harmonies, analyze their enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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