

OPTICAL SCIENCES

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A. Suzuki

# Nonimaging Fresnel Lenses

Design  
and Performance  
of Solar  
Concentrators



Springer

# Nonimaging Fresnel Lenses Design And Performance Of Solar Concentrators

**Yatish T. Shah**

A decorative red circular graphic with a gradient, appearing as a partial arc or a stylized lens, located to the right of the author's name.

## **Nonimaging Fresnel Lenses Design And Performance Of Solar Concentrators:**

**Nonimaging Fresnel Lenses** Ralf Leutz,Akio Suzuki,2001-07-31 A detailed and comprehensive account of the engineering of the world's first nonimaging Fresnel lens solar concentrator The book closes a gap in solar concentrator design and describes nonimaging refractive optics and its numerical mathematics The book shows the reader how to find his or her own optical solution using the rules and methodologies covering the design and the assessment of the nonimaging lens

Nonimaging Fresnel Lenses Ralf Leutz,Akio Suzuki,2001-07-31 A detailed and comprehensive account of the engineering of the world's first nonimaging Fresnel lens solar concentrator The book closes a gap in solar concentrator design and describes nonimaging refractive optics and its numerical mathematics The book shows the reader how to find his or her own optical solution using the rules and methodologies covering the design and the assessment of the nonimaging lens *High*

*Concentrator Photovoltaics* Pedro Pérez-Higueras,Eduardo F. Fernández,2015-08-04 The aim of this book is to provide a comprehensive overview of the fundamentals and engineering of high concentrator photovoltaic HCPV technology and to elucidate how this complex and emerging technology is applied in power plants It is the first of its kind to focus exclusively on HCPV technology and offers a valuable reference volume to readers This book is the result of an international collaboration among experts and each chapter is written by a specialist in the field The conversion of solar energy to electricity plays an important role in power generation and HCPV is signalled by many researchers and professionals as one of the most promising sources of solar power Therefore this book provides an important resource for companies research institutes and universities to assist with the understanding of fundamentals different applications and potential of such technology Handbook of Concentrator Photovoltaic Technology Carlos Algora,Ignacio Rey-Stolle,2016-04-25

Concentrator Photovoltaics CPV is one of the most promising technologies to produce solar electricity at competitive prices High performing CPV systems with efficiencies well over 30% and multi megawatt CPV plants are now a reality As a result of these achievements the global CPV market is expected to grow dramatically over the next few years reaching cumulative installed capacity of 12.5 GW by 2020 In this context both new and consolidated players are moving fast to gain a strategic advantage in this emerging market Written with clear brief and self contained technical explanations Handbook of Concentrator Photovoltaic Technology provides a complete overview of CPV covering the fundamentals of solar radiation solar cells concentrator optics modules and trackers all aspects of characterization and reliability case studies based on the description of actual systems and plants in the field environmental impact market potential and cost analysis CPV technology is at a key point of expansion This timely handbook aims to provide a comprehensive assessment of all CPV scientific technological and engineering background with a view to equipping engineers and industry professionals with all of the vital information they need to help them sustain the impetus of this encouraging technology Key features Uniquely combines an explanation of the fundamentals of CPV systems and components with an overview of the market place and their real life

applications Each chapter is written by well known industry specialists with extensive expertise in each particular field of CPV technology Reviews the basic concepts of multi junction solar cells and new concepts for CPV cells highlighting the key differences between them Demonstrates the state of the art of several CPV centres and companies Facilitates future cost calculation models for CPV Features extensive case studies in each chapter including coverage of CPV modules and systems

**Solar Energy Sciences and Engineering Applications** Napoleon Enteria, Aliakbar Akbarzadeh, 2013-12-10 Solar energy is available all over the world in different intensities Theoretically the solar energy available on the surface of the earth is enough to support the energy requirements of the entire planet However in reality progress and development of solar science and technology depends to a large extent on human desires and needs This is due to the various barriers to overcome and to deal with the economics of practical utilization of solar energy This book introduces the rapid development and progress in the field of solar energy applications for science and technology the advancement in the field of biological processes electricity production and mechanical operations chemical processes for the production of hydrogen from water and other endothermic processes using solar energy the development of thermo electric production through solar energy the development of solar ponds for electric energy production and the mechanical operation with solar energy the building operation with solar energy optimization and urban planning This book is an invaluable resource for scientists who need the scientific and technological knowledge of the wide coverage of solar energy sciences and engineering applications This will further encourage researchers scientists engineers and students to stimulate the use of solar energy as an alternative energy source

**Solar Energy Desalination Technology** Hongfei Zheng, 2017-01-20 Solar Energy Desalination Technology explains how to obtain clean water from sea water using solar energy Special methods and types used in solar desalination are introduced providing new thoughts concepts and feasible solutions in the desalination field along with the thermal and economic efficiency relating to current technology Many places in the world are suffering from fresh water shortage However those places are often rich with solar resources sea water and or brackish water resources that could dramatically benefit from solar energy as a viable solution for the production of fresh water Explains the principles of solar thermal energy usage to produce clean water from sea water Introduces and explains new kinds of solar desalination systems including their technical level and working principle Provides fundamental knowledge on water treatment and solar collection

**Advanced Power Generation Systems** Yatish T. Shah, 2022-12-21 Advanced Power Generation Systems Thermal Sources evaluates advances made in heat to power technologies for conventional combustion heat and nuclear heat along with natural sources of geothermal solar and waste heat generated from the use of different sources These advances will render the landscape of power generation significantly different in just a few decades This book covers the commercial viability of advanced technologies and identifies where more work needs to be done Since power is the future of energy these technologies will remain sustainable over a long period of time Key Features Covers power generation and heat engines

Details photovoltaics thermo photovoltaics and thermoelectricity Includes discussion of nuclear and renewable energy as well as waste heat This book will be useful for advanced students researchers and professionals interested in power generation and energy industries      Concentrator Photovoltaics Antonio Luque López, Viacheslav M. Andreev, 2007-08-17 This book

gives an overview of all components e g cells concentrators modules and systems for systems of concentrator photovoltaics It is an application oriented book The authors report on significant results related to design technology and applications and they also cover the fundamental physics and market considerations      **Introduction to Radiometry and Photometry,**

**Second Edition** William Ross McCluney, 2014-11-01 This second edition of an Artech House classic title describes in detail the relationship between radiometry and photometry It covers information needed to solve problems in radiation transfer and detection detectors measuring instruments and concepts in colorimetry This revised second edition presents an updated treatment of modern radiometry and photometry including brand new sections on applications and developments in light sources and scientific instruments for measuring radiation and light Engineers are also provided with an exciting new chapter on the use of computerized optical ray tracing for virtual experiments on optical systems      *Progress in*

*Nano-Electro Optics III* Motoichi Ohtsu, 2005-12-17 Near eld optical recording is a promising way to realize a recording density 2 of over 1 Tb in In this chapter we focused on the near eld optical head which is a key device for near eld optical recording First we explained the technical issues regarding the near eld optical head and introduced some solutions to these issues We focused on a highly e cient near eld optical head that uses a wedge shaped metallic plate and described its optical pr erties based on a simulation using a nite di erence time domain method The simulation results con rmed that a strong optical near eld is generated at the apex of the metallic plate when a plasmon is excited in the metallic plate When a TbFeCo recording medium was placed 10 nm from the ne eld optical head the size of the optical spot was 30 nm which corresponds 2 to an areal recording density of approximately 1 Tb in The e ciency was 20% if we assume that the incident beam was a Gaussian beam with a full width at half maximum of 1 m Furthermore we discussed an optical head using two metallic plates We con rmed through our simulation that a highly localized optical near eld was generated at the gap when the plasmon was excited in the metallic plates The distribution was 5 nm by 5 nm when the two apices were separated by 5 nm      Raman

Amplifiers for Telecommunications 1 Mohammad N. Islam, 2007-06-30 I remember vividly the rst time that I heard about the ber ampli er At that time of course it was the erbium doped ber ampli er the predecessor of the Raman ampli er that is the subject of this book It was an early morning in a forgotten year in Murray Hill New Jersey at one of our Bell Labs monthly research staff meetings About twenty directors and executive directors of research organizations clustered around a long table in the imposing executive conference room Arno Penzias the vice president of research presided at the foot of the table Everyone who participated in those research staff meetings will long remember their culture and atmosphere Arno would pick an arbitrary starting point somewhere around the table and the designated person would head to the front of the table

to give a short talk on something new in his or her research area This first speaker would invariably fiddle helplessly with the controls embedded in the podium that controlled the viewgraph projector but eventually we would hear machinery grinding in the back room as a large hidden mirror moved into place We would all wait quietly arranging and choosing our own viewgraphs from the piles that lay on the table in front of every participant

**Spatial Solitons** Stefano Trillo, William Torruellas, 2013-06-05 Soliton based concepts open the road for newly designed laser sources new frequency converters and high intensity laser material interactions Optical solitons as stable spatial patterns of complex nonlinear systems allow for the control of the diffraction of optical beams Solitons also prevent unwanted chaotic behavior Thus solitary wave physics plays a significant role from modern optical physics to optical communication optical switching and optical storage The book gives an updated overview of optical solitons and can serve as a reference and guide for advanced students and scientists working in the field and related areas of science where solitons are observed

Progress in Nano-Electro Optics IV Motoichi Ohtsu, 2005-02-11 Focuses on fundamental aspects of nano electro optics Starting with fiber probes and related devices for generating and detecting the optical near field with high efficiency and resolution the next chapter addresses the modulation of an electron beam by optical near fields Further topics include fluorescence spectroscopy in which sample molecules are excited by the evanescent surface plasmon field close to metallic surfaces spatially resolved near field photoluminescence spectroscopy of semiconductor quantum dots which will become an essential issue in future electro optical devices and systems and finally the quantum theory of the optical near field This latter theory accounts for all the essential features of the interaction between optical near fields and nanomaterials atoms and molecules

*UV-Visible Reflection Spectroscopy of Liquids* Jukka A. Räty, Kai-Erik Peiponen, Toshimitsu Asakura, 2013-03-20 An up to date overview of reflectometers used for optical spectroscopy of various kinds of liquids ranging from well known transparent liquids to pathological industrial liquids The book reviews and explains basic materials for anyone wanting to get to know the theory spectral analysis and modern devices needed for the measurement of refractive index and absorption of liquids Moreover the book gives an introduction to reflectivity from optically nonlinear liquids such as liquids containing nanoparticles

*Microoptics* Karl-Heinz Brenner, Jürgen Jahns, 2013-03-20 Microoptics is still an emerging field with a huge potential for a large number of applications This monograph brings together the most recent developments in order to give a broad overview

X-Ray Optics Yuri Shvyd'ko, 2013-11-11 The use of x rays has moved in the forefront of science and technology in the second half of the 20th century This progress has been greatly stimulated by the advent of synchrotron x ray sources in the 1960s The undulator based synchrotron radiation sources which have appeared in the last decade of the 20th century gave a new impetus to such development The brilliance of the x ray sources has increased by 12 orders of magnitude in 40 years and this trend does not show any signs of stagnation The future x ray sources of the 21st century based on free electron lasers driven by linear accelerators will provide sub picosecond radiation pulses with by many orders of magnitude higher brilliance and

full transverse coherence The x ray sources of the newest generation offer a possibility to realize more than ever before the great potential of x ray optics and as a consequence to elaborate new sophisticated instrumentation with unprecedented resolution and eventually to move in new directions of research in x ray technology materials science fundamental physics life sciences etc

**Fundamentals of Semiconductor Lasers** Takahiro Numai, 2006-05-10 Fundamentals of Semiconductor Lasers explains the physics and fundamental characteristics of semiconductor lasers with regard to systems applications The detailed and comprehensive presentation is unique in that it encourages the reader to consider different semiconductor lasers from different angles Emphasis is placed on recognizing common concepts such operating principles and structure and solving problems based on individual situations The treatment is enhanced by an historical account of advances in semiconductor lasers over the years discussing both those ideas that have persisted over the years and those that have faded out The first four chapters cover the basics of semiconductors including band structures optical transitions optical waveguides and optical resonators The remaining chapters discuss operating principles and basic characteristics of semiconductor lasers and advanced topics including dynamic single mode lasers quantum well lasers and control of spontaneous emission The reader need only be familiar with undergraduate level electromagnetism and quantum mechanics After reading this book the student will be able to think critically about semiconductor lasers and be able to read and understand journal papers in the field This book will be essential to any advanced undergraduate or graduate student of semiconductor lasers and any professional physicist or engineer looking for a good overview of the subject

Optical Imaging and Microscopy Peter Török, Fu-Jen Kao, 2003 Annotation This text on contemporary optical systems is intended for optical researchers and engineers graduate students and optical microscopists in the biological and biomedical sciences In three sections the book discusses high aperture optical systems nonlinear optical techniques and various techniques that are finding new applications The new second edition has been thoroughly revised and expanded to account for new advances in fluorescence imaging and diffractive optical lenses

Kramers-Kronig Relations in Optical Materials Research Valerio Lucarini, Jarkko J. Saarinen, Kai-Erik Peiponen, Erik M. Vartiainen, 2005-04-18 The Kramers-Kronig relations constitute the mathematical formulation of the fundamental connection between the in phase to the out of phase response of a system to a sinusoidal time varying external perturbation Such connection exists in both classical and quantum physical systems and derives directly from the principle of causality Apart from being of great importance in high energy physics statistical physics and acoustics at present the Kramers-Kronig relations are basic and widely accepted tools for the investigation of the linear optical properties of materials since they allow performing the so called inversion of optical data i.e. acquiring knowledge on dispersive phenomena by measurements of absorptive phenomena over the whole energy spectrum or vice versa Since the late 80s a growing body of theoretical results as well as of experimental evidences has shown that the Kramers-Kronig relations can be adopted for efficiently acquiring knowledge on nonlinear optical phenomena These results

suggest that the Kramers Kronig relations may become in a near future standard techniques in the context of nonlinear spectroscopy This book is the first comprehensive treatise devoted to providing a unifying picture of the physical backgrounds of the rigorous mathematical theory and of the applications of the Kramers Kronig relations in both fields of linear and nonlinear optical spectroscopy Some basic programs written for the MATLAB environment are also included This book is organized as an argumentative discourse progressing from the linear to the nonlinear phenomena from the general to the specifics and from the theoretical to the experimental results

### **Optical Frequency-Modulated Continuous-Wave (FMCW)**

**Interferometry** Jesse Zheng, 2005-08-25 Optical interference plays a prominent role in scientific discovery and modern technology Historically optical interference was instrumental in establishing the wave nature of light Nowadays optical interference continues to be of great importance in areas such as spectroscopy and metrology Thus far the physical optics literature has discussed the interference of optical waves with the same single frequency i.e. homodyne interference and the interference of optical waves with two different frequencies i.e. heterodyne interference but it hardly ever deals with the interference of optical waves whose frequencies are continuously modulated i.e. frequency modulated continuous wave interference Frequency modulated continuous wave FMCW interference which was originally investigated in radar in the 1950s has been recently introduced in optics The study of optical FMCW interference not only updates our knowledge about the nature of light but also creates a new advanced technology for precision measurements This book introduces the principles applications and signal processing of optical FMCW interference The layout of this book is straightforward Chapter 1 gives a short introduction to optical FMCW interferometry by considering the historical development general concepts and major advantages provided by this new technology Chapter 2 focuses on the principles of optical FMCW interference Three different versions of optical FMCW interference sawtooth wave optical FMCW interference triangular wave optical FMCW interference and sinusoidal wave optical FMCW interference are discussed in detail Moreover multiple beam optical FMCW interference and multip wavelength optical FMCW interference are also discussed by this chapter



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