

Springer Series in
Optical Sciences

Walter Koechner

Solid-State Laser Engineering

Third Completely Revised and Updated Edition



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Solid State Laser Engineering Springer Series In Optical Sciences

Ying Liu



Solid State Laser Engineering Springer Series In Optical Sciences:

Solid-State Laser Engineering Walter Koechner, 2007-11-06 This book written from an industrial vantage point describes the characteristics design and operation of solid state lasers As the title implies the emphasis is placed on the technical aspects of these systems rather than on theoretical concepts Lengthy mathematical derivations have been avoided because the theory is not treated as an end in itself but rather serves to explain the experimental results observed in the laboratory However there is sufficient theoretical background provided in each chapter to make the book self contained Solid State Laser Engineering is mainly intended for the practicing scientist or engineer who is interested in the design or use of solid state lasers The response from readers has shown that the comprehensive treatment of the subject makes the work useful also to students of laser physics who want to supplement their theoretical knowledge with the engineering aspects of lasers Although not written in the form of a college text the book might be used in an advanced college course on laser technology After a historical overview the book starts with a review of the basic concepts of laser physics Chap 1 Analytical expressions of the threshold condition gain and output of laser oscillators are derived in Chap 3 An oscillator followed by one or more amplifiers is a common architecture in pulsed solid state laser systems to boost output energy Energy storage and gain of amplifiers is discussed in Chap 4 Four chapters deal with the basic subsystems of solid state lasers These are the active medium the optical resonator the pumping system and the thermal management Properties of solid state laser hosts and active ions are reviewed in Chap 2

Solid-state Laser Engineering W. Koechner, **High Power Lasers in Production Engineering** Dieter Schücker, 1999 High power lasers of either the gas or solid state type can be used to generate a focal spot with a diameter of about a tenth of a millimetre and a power density of up to 100 Mio W cm² With these intensities all materials can be heated up rapidly leading to fast melting violent evaporation or even plasma formation So laser beams can be utilized for various processing tasks such as transformation hardening cutting and ablation or welding and cladding or even rapid prototyping With these processes important advantages are achieved compared to conventional tools such as high processing speed due to the high concentration of energy and high quality of the processed workpiece without deformations due to the small overall heat input to the workpiece that corresponds to the small spot diameter All these advantages finally result in strongly reduced production costs which is the main reason for a world wide substitution of conventional processes and other beam tools by laser technology This monograph offers a great insight into the operation principles of high power laser sources the phenomena of interaction of laser beams and materials and the mechanisms of the various production processes with lasers thus enabling production engineers and others to make optimum use of the benefits of laser technology and to understand the technical properties and the physical limitations of this most recent technology especially in comparison to conventional tools and other beam tools and providing a sufficient basis for the understanding and use of future developments in this area

Lasers and Current Optical Techniques in Biology Giuseppe Palumbo, Riccardo Pratesi, 2007-10-31 The introduction of innovative light sources fibre laser sources and light emitting diodes is opening unexpected perspectives into optical techniques and is promising new exciting applications in the field of biomedicine *Lasers and Current Optical Techniques in Biology* aims to provide an overview of light sources together with an extensive and authoritative description of the optical techniques in bio medicine This book is designed to give biomedical researchers a strong feel for the capability of physical approaches promote new interdisciplinary interests and persuade more practitioners to take advantage of optical techniques Current developments in a variety of optical techniques including Near Infra Red Spectroscopy and traditional and advanced fluorescence techniques are covered ranging from those that are becoming common practice to those that need much more experimentation before they can be accepted as real breakthroughs Further topics include optical coherence tomography and its variations polarised light imaging and principle laser and lamp sources a usually fragmentary topic often dispersed among specialist publications The wide range of topics covered make *Lasers and Current Optical Techniques in Biology* of interest to a diverse range of scientific communities

Handbook of Defence Electronics and Optronics Anil K. Maini, 2018-07-23
Handbook of Defence Electronics and Optronics Anil K Maini Former Director Laser Science and Technology Centre India First complete reference on defence electronics and optronics Fundamentals Technologies and Systems This book provides a complete account of defence electronics and optronics The content is broadly divided into three categories topics specific to defence electronics topics relevant to defence optronics and topics that have both electronics and optronics counterparts The book covers each of the topics in their entirety from fundamentals to advanced concepts military systems in use and related technologies thereby leading the reader logically from the operational basics of military systems to involved technologies and battlefield deployment and applications Key features Covers fundamentals operational aspects involved technologies and application potential of a large cross section of military systems Discusses emerging technology trends and development and deployment status of next generation military systems wherever applicable in each category of military systems Amply illustrated with approximately 1000 diagrams and photographs and around 30 tables Includes salient features technologies and deployment aspects of hundreds of military systems including military radios ground and surveillance radars laser range finder and target designators night visions devices EW and EO jammers laser guided munitions and military communications equipment and satellites *Handbook of Defence Electronics and Optronics* is an essential guide for graduate students R D scientists engineers engaged in manufacturing defence equipment and professionals handling the operation and maintenance of these systems in the Armed Forces

Lasers Charles Blain, 2002 Developments in lasers continue to enable progress in many areas such as eye surgery the recording industry and dozens of others This book presents citations from the book literature for the last 25 years and groups them for ease of access which is also provided by subject author and titles indexes

Laser Physics Simon Hooker, Colin Webb, 2010-08-05 An up to date perspective on laser technology for students at

advanced undergraduate or introductory graduate level The principles of operation and applications of modern laser systems are analysed in detail The text has over 300 diagrams and each chapter is accompanied with questions solutions available on application

Biological Events Probed by Ultrafast Laser Spectroscopy Robert R. Alfano, 2012-12-02 Biological Events Probed by Ultrafast Laser Spectroscopy summarizes the progress in the experimental and theoretical understanding of primary phenomena occurring in biology on a picoseconds and nanosecond time scale This book includes basic principles survey of research results and thinking of experts in the fields of photosynthesis vision hemoglobin and DNA This reference is organized into five parts The primary events in the various areas of biology are reviewed in the first four parts The last part covers the picosecond and subpicosecond laser techniques Primary processes in photosynthesis are then discussed This is followed by chapters on fluorescence and absorption kinetic measurements in higher plants Subsequent chapters cover kinetic measurements in bacteria photosynthesis theories of primary energy transfer appropriate to photosynthesis and multiexcitation processes Part II examines primary visual processes including kinetic experimental work on rhodopsin and bacteriorhodopsin and theoretical concepts on primary events in vision The third part presents the introductory materials on the kinetic models of hemoglobin and myoglobin It also discusses the interesting picosecond measurements on these proteins Part IV focuses on the application of modern ultrafast temporal techniques to the study of DNA and its components as well as DNA dye complexes The concluding part introduces the principles of design and operation of the solid state laser and picoseconds spectroscopy methods A discussion on pulse generation methods and measurement techniques applicable for measuring primary events in biological systems is provided This book is useful both for the newbies and experts in the field of ultrafast phenomena It aims to attract biologists chemists physicists and engineers who are interested in biological processes It will help readers find all the necessary and relevant material in one presentation

Current Overviews in Optical Science and Engineering II Richard Feinberg, 1990 Laser Induced Damage in Optical Materials , 1993

Solid State Laser Engineering Springer Series In Optical Sciences: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Solid State Laser Engineering Springer Series In Optical Sciences : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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