# Reliability and Degradation of Semiconductor Lasers and LEDs

Mitsuo Fukuda

# Reliability And Degradation Of Semiconductor Lasers And Leds

J. Doneker

#### **Reliability And Degradation Of Semiconductor Lasers And Leds:**

Reliability and Degradation of Semiconductor Lasers and LEDs Mitsuo Fukuda, 1991-01-01 This comparative tutorial describes the reasons behind device failures and provides practical information on what can be done to minimize failure prone designs and enhance device reliability. The text demonstrates how with such advantages as smaller size low cost and simple operation LEDs are well suited for a wide range of applications especially in the field of optical fibre communication This book should prove of interest to engineers and scientists in research design manufacturing and development of semiconductor lasers LEDs and optical transmission systems **Reliability Characterisation of Electrical and Electronic Systems**, 2014-12-24 This book takes a holistic approach to reliability engineering for electrical and electronic systems by looking at the failure mechanisms testing methods failure analysis characterisation techniques and prediction models that can be used to increase reliability for a range of devices The text describes the reliability behavior of electrical and electronic systems It takes an empirical scientific approach to reliability engineering to facilitate a greater understanding of operating conditions failure mechanisms and the need for testing for a more realistic characterisation After introducing the fundamentals and background to reliability theory the text moves on to describe the methods of reliability analysis and characterisation across a wide range of applications Takes a holistic approach to reliability engineering Looks at the failure mechanisms testing methods failure analysis characterisation techniques and prediction models that can be used to increase reliability Facilitates a greater understanding of operating conditions failure mechanisms and the need for testing for a more realistic characterisation Introduction to Nitride Semiconductor Blue Lasers and Light Emitting Diodes Shuji Nakamura, Shigefusa F. Chichibu, 2000-03-09 The blue laser is an exciting new device used in physics The potential is now being recognized for its development into a commercial lighting system using about a tenth of the power and with a thousand times the operating lifetime of a comparable conventional system This comprehensive work introduces the subject at a level suitable for graduate students It covers the basics physics of light emitting diodes LEDs and laser diodes LDs based on gallium nitride and related nitride semiconductors and gives an outline of their structural transport and optical properties and the relevant device physics It begins with the fundamentals and covers both theory and experiment as well as an examination of actual and potential device applications Shuji Nakamura and Nichia Chemicals Industries made the initial breakthroughs in the field and these have revealed that LEDs and LDs are a sophisticated physical phenomenon and a Semiconductor Lasers and Herterojunction LEDs Henry Kressel, 2012-12-02 Semiconductor commercial reality Lasers and Heterojunction LEDs presents an introduction to the subject of semiconductor lasers and heterojunction LEDs The book reviews relevant basic solid state and electromagnetic principles the relevant concepts in solid state physics and the p n junctions and heterojunctions. The text also describes stimulated emission and gain the relevant concepts in electromagnetic field theory and the modes in laser structures The relation between electrical and optical properties of laser

diodes epitaxial technology binary III V compounds and diode fabrication are also considered The book further tackles the heterojunction devices of alloys other than GaAs AlAs the devices for special applications distributed feedback lasers and the transient effects in laser diodes Students taking courses in semiconductor lasers and heterojunction LEDs will find the book **Physics of Photonic Devices** Shun Lien Chuang, 2012-11-07 The most up to date book available on the physics of photonic devices This new edition of Physics of Photonic Devices incorporates significant advancements in the field of photonics that have occurred since publication of the first edition Physics of Optoelectronic Devices New topics covered include a brief history of the invention of semiconductor lasers the Lorentz dipole method and metal plasmas matrix optics surface plasma waveguides optical ring resonators integrated electroabsorption modulator lasers and solar cells It also introduces exciting new fields of research such as surface plasmonics and micro ring resonators the theory of optical gain and absorption in quantum dots and quantum wires and their applications in semiconductor lasers and novel microcavity and photonic crystal lasers quantum cascade lasers and GaN blue green lasers within the context of advanced semiconductor lasers Physics of Photonic Devices Second Edition presents novel information that is not yet available in book form elsewhere Many problem sets have been updated the answers to which are available in an all new Solutions Manual for instructors Comprehensive timely and practical Physics of Photonic Devices is an invaluable textbook for advanced undergraduate and graduate courses in photonics and an indispensable tool for researchers working in this rapidly growing field **Induced Damage in Optical Materials** ,1998 Proceedings of the Pacific Rim Statistical Conference for Production Engineering Dongseok Choi, Daeheung Jang, Tze Leung Lai, Youngjo Lee, Ying Lu, Jun Ni, Peter Qian, Peihua Qiu, George Tiao, 2018-03-27 This book presents the proceedings of the 2nd Pacific Rim Statistical Conference for Production Engineering Production Engineering Big Data and Statistics which took place at Seoul National University in Seoul Korea in December 2016 The papers included discuss a wide range of statistical challenges methods and applications for big data in production engineering and introduce recent advances in relevant statistical methods **Novel Materials Processing by Advanced Electromagnetic Energy Sources** S. Miyake, 2005-11-21 Proceedings of the International Symposium in Novel Materials Processing by Advanced Electromagnetic Energy Sources MAPEES 04 Identifies and details recent progress achieved by advanced electromagnetic energy sources in materials processing Explores novel approaches to advanced electromagnetic energy processing of materials in an attempt to discover new and unique industrial fields **Electromagnetic Radiation:** Atomic, Molecular, and Optical Physics ,1997-07-23 Combined with Volumes 29A and 29B this volume is a comprehensive treatment of the key experimental methods of atomic molecular and optical physics as well as an excellent experimental handbook for the field Thewide availability of tunable lasers in the past several years has revolutionized the field and lead to the introduction of many new experimental methods that are covered in these volumes Traditional methods are also included to ensure that the volumes will be a complete reference source for the field **Defect Recognition and** 

Image Processing in Semiconductors 1997 J. Doneker,2017-11-22 Defect Recognition and Image Processing in Semiconductors 1997 provides a valuable overview of current techniques used to assess monitor and characterize defects from the atomic scale to inhomogeneities in complete silicon wafers This volume addresses advances in defect analyzing techniques and instrumentation and their application to substrates epilayers and devices The book discusses the merits and limits of characterization techniques standardization correlations between defects and device performance including degradation and failure analysis and the adaptation and application of standard characterization techniques to new materials It also examines the impressive advances made possible by the increase in the number of nanoscale scanning techniques now available The book investigates defects in layers and devices and examines the problems that have arisen in characterizing gallium nitride and silicon carbide

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