PHYSICS INVESTIGATORY PROJECT

TOPIC: TO CONSTRUCT AN AUTOMATIC NIGHT LAMP USING A TRANSISTOR AND LDR

MADE BY: Adhish Anand

CLASS - XII-B

GUIDED BY— Kalpana Ma'am

Class 12 Physics Project File Semiconductors Doping

G Psacharopoulos

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International Conference on Future Energy Concepts, 30 January-1 February, 1979 Institution of Electrical Engineers. Science, Education, and Management Division,1979 *Government Reports Annual Index: Keyword A-L* ,1987

The GEC Journal of Research ,1993 **Physics Briefs** ,1994 *Transdex Index* ,1992 An index to translations issued by the United States Joint Publications Research Service JPRS *INIS Atomindeks* ,1980 *Solid State Technology* ,1986

Scientific and Technical Books and Serials in Print ,1984 **Doping in III-V Semiconductors** E. Fred Schubert,2015-08-18 This is the first book to describe thoroughly the many facets of doping in compound semiconductors Equal emphasis is given to the fundamental materials physics and to the technological aspects of doping The author describes various doping techniques including doping during epitaxial growth doping by implantation and doping by diffusion The key characteristics of all dopants that have been employed in III V semiconductors are discussed In addition general characteristics of dopants are analyzed including the electrical activity saturation amphotericity autocompensation and maximum attainable dopant concentration Redistribution effects are important in semiconductor microstructures Linear and non linear diffusion different microscopic diffusion mechanisms surface segregation surface drift surface migration impurity induced disordering and the respective physical driving mechanisms are illustrated Topics related to basic impurity theory include the hydrogenic model for shallow impurities linear screening density of states classical and quantum statistics the law of mass action as well as many analytic approximations for the Fermi Dirac integral for three two and one dimensional systems The timely topic of highly doped semiconductors including band tails impurity bands bandgap renormalization the Mott transition and the Burstein Moss shift is discussed as well Doping is essential in many semiconductor heterostructures including high mobility selectively doped heterostructures quantum well and quantum barrier structures doping superlattice structures and d doping structures Technologically important deep levels are summarized including Fe Cr and the DX center the EL2 defect and rare earth impurities The properties of deep levels are presented phenomenologically including emission capture Shockley Read recombination the Poole Frenkel effect lattice relaxation and other effects The final chapter is dedicated to the experimental characterization of impurities This book will be of interest to graduate students researchers and development engineers in the fields of electrical engineering materials science physics and chemistry working on semiconductors The book may also be used as a text for graduate courses in electrical engineering and materials science

Delta-doping of Semiconductors E. F. Schubert,1996-03-14 This book is the first to give a comprehensive review of the theory fabrication characterisation and device applications of abrupt shallow and narrow doping profiles in semiconductors Such doping profiles are a key element in the development of modern semiconductor technology After an introductory chapter setting out the basic theoretical and experimental concepts involved the fabrication of abrupt and narrow doping profiles by several different techniques including epitaxial growth is discussed The techniques for characterising doping distributions are then presented followed by several chapters devoted to the inherent physical properties of narrow doping profiles The latter part of the book deals with specific devices The book will be of great interest to graduate students researchers and engineers in the fields of semiconductor physics and microelectronic engineering Neutron Transmutation Doping of Semiconductor Materials Robert D. Larrabee,2013-11-11 viii The growing use of NTD silicon outside the U S A motivated an interest in having the next NTD conference in Europe Therefore the Third International Conference on Neutron Transmutation Doped Silicon was organized by Jens Guldberg and held in Copenhagen Denmark on August 27 29 1980 The papers presented at this conference reviewed the developments which occurred during the t A O years since the previous conference and included papers on irradiation technology radiation induced defects characteriza tion of NTD silicon and the use of NTD silicon for device appli cations The proceedings of this conference were edited by Jens Guldberg and published by Plenum Press in 1981 Interest in and commercial use of NTD silicon continued to grow after the Third NTD Conference and research into neutron trans mutation doping of nonsilicon semiconductors had begun to accel erate The Fourth International Transmutation Doping Conference reported in this volume includes invited papers summarizing the present and anticipated future of NTD silicon the processing and characterization of NTD silicon and the use of NTD silicon in semiconductor power devices In addition four papers were pre sented on NTD of nonsilicon semiconductors five papers on irra diation technology three papers on practical utilization of NTD silicon four papers on the characterization of NTD silicon and five papers on neutron damage and annealing These papers indi cate that irradiation technology for NTD silicon and its use by the power device industry are approaching maturity *Doping and Semiconductor Junction Formation* Marshall Sittig,1970 **Doping in III-V Semiconductors** E. F. Schubert,1993-09-30 Doping of III V semiconductor compounds is the basis of virtually all semiconductor heterostructures and all optoelectronic devices This is the first book to provide a comprehensive and thorough treatment of the subject examining both theoretical and experimental aspects and including important material on delta doping The author is involved in research at one of the world s foremost microelectronics laboratories and while assessing the current state of the art he also provides valuable introductory material for those beginning studies or research in this field

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