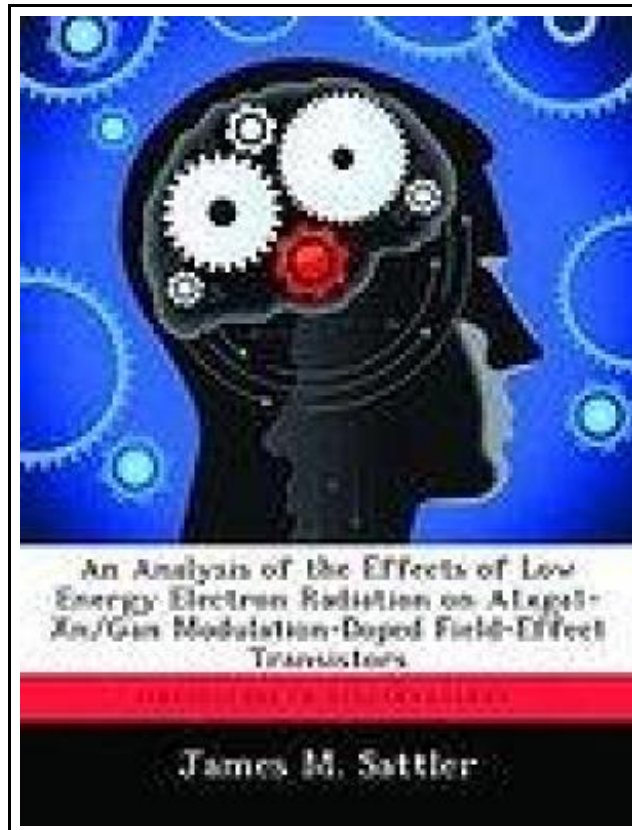


An Analysis of the Effects of Low Energy Electron Radiation on Al_xGa_{1-x}N/GaN Modulation-Doped Field-Effect Transistors



Filesize: 5.5 MB

Reviews

Very useful for all group of people. It is amongst the most incredible pdf i actually have read through. Its been written in an extremely straightforward way and it is just right after i finished reading through this pdf by which basically modified me, change the way i think.
(Felicia Nikolaus)


AN ANALYSIS OF THE EFFECTS OF LOW ENERGY ELECTRON RADIATION ON Al_xGa_{1-x}N/GaN MODULATION-DOPED FIELD-EFFECT TRANSISTORS


DOWNLOAD




To get **An Analysis of the Effects of Low Energy Electron Radiation on Al_xGa_{1-x}N/GaN Modulation-Doped Field-Effect Transistors** eBook, make sure you access the button beneath and save the file or gain access to other information which are related to AN ANALYSIS OF THE EFFECTS OF LOW ENERGY ELECTRON RADIATION ON Al_xGa_{1-x}N/GaN MODULATION-DOPED FIELD-EFFECT TRANSISTORS book.

Biblioscholar Okt 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x9 mm. This item is printed on demand - Print on Demand Neuware - The effects of radiation on Al_xGa_{1-x}N/GaN MODFETs is an area of increasing interest to the USAF as these devices become developed and integrated in satellite-based systems. Irradiation is also a valuable tool for analyzing the quantum-level characteristics and properties that are responsible for device operation. Al_xGa_{1-x}N/GaN MODFETs were fabricated and irradiated at liquid nitrogen temperatures by 0.45 -1.2 MeV electrons up to doses of 6 10¹⁶ e/cm². Following irradiation, low temperature I-V measurements were recorded providing dose-dependent measurements. Temperature-dependent I-V measurements were also made during room temperature annealing following irradiation. I-V measurements indicate radiation-induced changes occur in these devices creating increased gate and drain currents. These increased currents are only maintained at low temperatures (T greater than 300 K). It is believed that the increase in gate current is caused by an increase in the electron trap concentration of the Al_xGa_{1-x}N layer. This increase in trap concentration directly increases the trap-assisted tunneling current resulting in the observed increase in gate current. The mechanism causing the increase in drain current is unknown. Several theories explaining this increase are presented along with the additional research necessary to illuminate the correct theory. This is the first experiment involving electron radiation of Al_xGa_{1-x}N/GaN MODFETs. 146 pp. Englisch.

 [Read An Analysis of the Effects of Low Energy Electron Radiation on Al_xGa_{1-x}N/GaN Modulation-Doped Field-Effect Transistors Online](#)

 [Download PDF An Analysis of the Effects of Low Energy Electron Radiation on Al_xGa_{1-x}N/GaN Modulation-Doped Field-Effect Transistors](#)

 [Download ePUB An Analysis of the Effects of Low Energy Electron Radiation on Al_xGa_{1-x}N/GaN Modulation-Doped Field-Effect Transistors](#)

Other Books



[PDF] Psychologisches Testverfahren

Click the hyperlink under to read "Psychologisches Testverfahren" file.

[Read eBook »](#)



[PDF] Programming in D

Click the hyperlink under to read "Programming in D" file.

[Read eBook »](#)



[PDF] The genuine book marketing case analysis of the the lam light. Yin Qihua Science Press 21.00(Chinese Edition)

Click the hyperlink under to read "The genuine book marketing case analysis of the the lam light. Yin Qihua Science Press 21.00(Chinese Edition)" file.

[Read eBook »](#)



[PDF] Have You Locked the Castle Gate?

Click the hyperlink under to read "Have You Locked the Castle Gate?" file.

[Read eBook »](#)



[PDF] Adobe Indesign CS/Cs2 Breakthroughs

Click the hyperlink under to read "Adobe Indesign CS/Cs2 Breakthroughs" file.

[Read eBook »](#)



[PDF] The Java Tutorial (3rd Edition)

Click the hyperlink under to read "The Java Tutorial (3rd Edition)" file.

[Read eBook »](#)



[PDF] The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)

Click the hyperlink listed below to download "The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)" PDF document.

[Read Document »](#)



[PDF] Art appreciation (travel services and hotel management professional services and management expertise secondary vocational education teaching materials supporting national planning book)(Chinese Edition)

Click the hyperlink listed below to download "Art appreciation (travel services and hotel management professional services and management expertise secondary vocational education teaching materials supporting national planning book)(Chinese Edition)" PDF document.

[Read Document »](#)



[PDF] Genuine entrepreneurship education (secondary vocational schools teaching book) 9787040247916(Chinese Edition)

Click the hyperlink listed below to download "Genuine entrepreneurship education (secondary vocational schools teaching book) 9787040247916(Chinese Edition)" PDF document.

[Read Document »](#)



[PDF] The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds

Click the hyperlink listed below to download "The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds" PDF document.

[Read Document »](#)



[PDF] Oxford Primary Illustrated Maths Dictionary (Paperback)

Click the hyperlink listed below to download "Oxford Primary Illustrated Maths Dictionary (Paperback)" PDF document.

[Read Document »](#)



[PDF] Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures) (Paperback)

Click the hyperlink listed below to download "Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures) (Paperback)" PDF document.

[Read Document »](#)