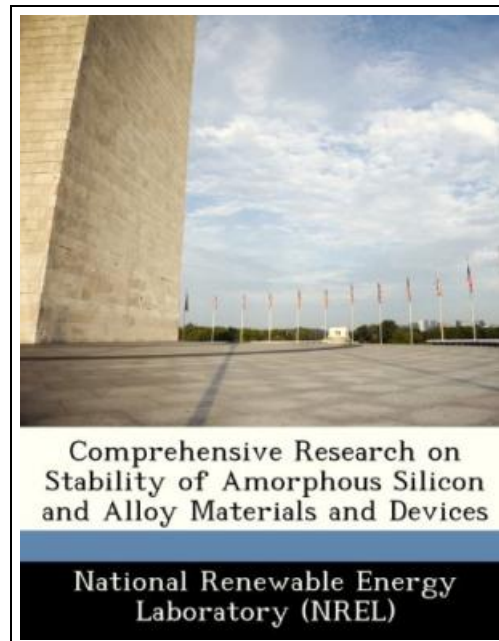


## Comprehensive Research on Stability of Amorphous Silicon and Alloy Materials and Devices



Filesize: 9.52 MB

### **Reviews**

*This pdf is fantastic. It is really basic but excitement from the fifty percent in the book. Your lifestyle span will be change as soon as you full reading this publication.*

*(Yolanda Nicolas)*

## COMPREHENSIVE RESEARCH ON STABILITY OF AMORPHOUS SILICON AND ALLOY MATERIALS AND DEVICES



Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.In this report, we describe the work done to improve the material and device properties of a-Si: H and a-(Si, Ge): H alloys prepared using electron cyclotron resonance (ECR) plasma deposition and to understand the growth chemistry. Major results were obtained in the following areas: 1) Influence of plasma chemistry on properties and stability of a-Si: H single-junction solar cells; 2) Fabrication of good-quality tandem-junction cells. We made tandem-junction a-Si/a-Si cells with excellent voltages and fill factors using the H-ECR process; 3) Growth of high-quality a-(Si, Ge): H films using the ECR deposition process; 4) Fabrication of single-junction devices in a-(Si, Ge): H for diagnosing the material; and 5) Graded-gap cells in a-(Si, Ge): H. Good devices were produced using a graded-gap I-layer. In summary, the most important finding from our research has been that plasma chemistry plays a very important role in determining the properties of the materials, particularly the properties of the a-(Si, Ge): H alloy system. Even in a-Si: H, plasma chemistry plays a role in determining stability. This result suggests that by deliberately changing the chemistry of deposition, one may be able to further improve the a-(Si, Ge): H materials system and make its properties comparable to the properties of a-Si: H. The ECR reactor has proved to be a very useful chemical tool, with excellent control over g.



[Read Comprehensive Research on Stability of Amorphous Silicon and Alloy Materials and Devices Online](#)

[Download PDF Comprehensive Research on Stability of Amorphous Silicon and Alloy Materials and Devices](#)

## You May Also Like



### **Count Leopold s Badtime, Bedtime, Children s Rhymes Vol II: A Collection of Children s Rhymes with Anti-Bullying Themes**

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The 21st Century is full of make-believe Superheroes.centuries ago there were also imaginary...

[Download ePub »](#)



### **Fifty Years Hence, or What May Be in 1943**

Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Fifty Years Hence is a quasi-fictional work by Robert Grimshaw, a professional...

[Download ePub »](#)



### **Learn em Good: Improve Your Child s Math Skills: Simple and Effective Ways to Become Your Child s Free Tutor Without Opening a Textbook**

Createspace, United States, 2010. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.From a certified teacher and founder of an online tutoring website-a simple and...

[Download ePub »](#)



### **Dont Line Their Pockets With Gold Line Your Own A Small How To Book on Living Large**

Madelyn D R Books. Paperback. Book Condition: New. Paperback. 106 pages. Dimensions: 9.0in. x 6.0in. x 0.3in.This book is about my cousin, Billy a guy who taught me a lot over the years and who...

[Download ePub »](#)



### **My Life as an Experiment: One Man s Humble Quest to Improve Himself by Living as a Woman, Becoming George Washington, Telling No Lies, and Other Radical Tests**

SIMON SCHUSTER, United States, 2010. Paperback. Book Condition: New. Reprint. 212 x 138 mm. Language: English . Brand New Book. One man. Ten extraordinary quests. Bestselling author and human guinea pig A. J. Jacobs puts...

[Download ePub »](#)