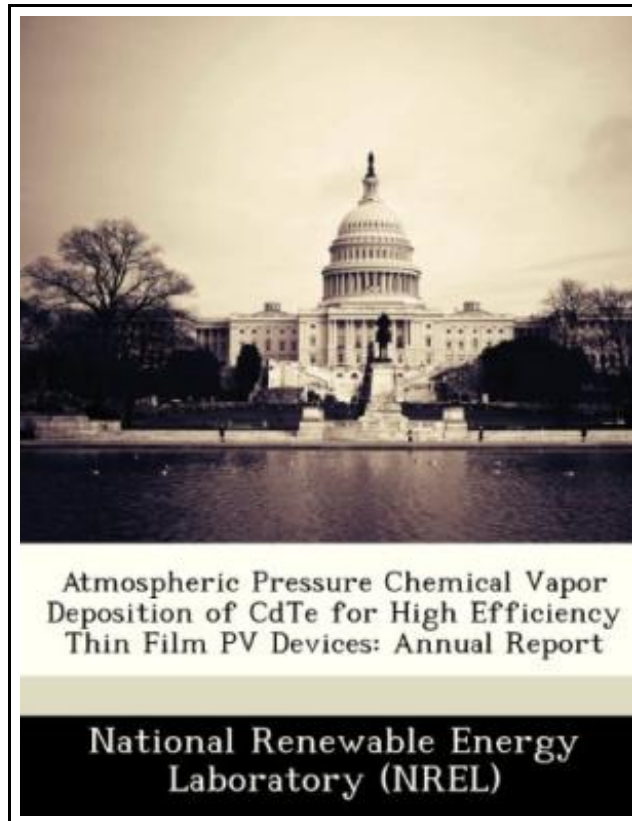


# Atmospheric Pressure Chemical Vapor Deposition of Cdte for High Efficiency Thin Film Pv Devices: Annual Report



Filesize: 2.37 MB

## ***Reviews***

*This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.*

***(Ms. Ora Buckridge)***

## ATMOSPHERIC PRESSURE CHEMICAL VAPOR DEPOSITION OF CDTE FOR HIGH EFFICIENCY THIN FILM PV DEVICES: ANNUAL REPORT



To get **Atmospheric Pressure Chemical Vapor Deposition of Cdte for High Efficiency Thin Film Pv Devices: Annual Report** PDF, remember to refer to the button below and save the document or get access to other information which might be in conjunction with ATMOSPHERIC PRESSURE CHEMICAL VAPOR DEPOSITION OF CDTE FOR HIGH EFFICIENCY THIN FILM PV DEVICES: ANNUAL REPORT book.

Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.ITN s 3-year project, titled Atmospheric Pressure Chemical Vapor Deposition (APCVD) of CdTe for High-Efficiency Thin-Film Photovoltaic (PV) Devices, has the overall objectives of improving thin-film CdTe PV manufacturing technology and increasing CdTe PV device power conversion efficiency. CdTe deposition by APCVD employs the same reaction chemistry as has been used to deposit 16 percent-efficient CdTe PV films, i.e., close-spaced sublimation, but employs forced convection rather than diffusion as a mechanism of mass transport. Tasks of the APCVD program center on demonstrating APCVD of CdTe films, discovering fundamental mass-transport parameters, applying established engineering principles to the deposition of CdTe films, and verifying reactor design principles that could be used to design high-throughput, high-yield manufacturing equipment. Additional tasks relate to improved device measurement and characterization procedures that can lead to a more fundamental understanding of CdTe PV device operation, and ultimately, to higher device conversion efficiency and greater stability. Specifically, under the APCVD program, device analysis goes beyond conventional one-dimensional device characterization and analysis toward two-dimension measurements and modeling. Accomplishments of the first year of the APCVD subcontract include: selection of the Stagnant Flow Reactor design concept for the APCVD reactor, development of a detailed reactor design, performance of detailed numerical calculations simulating reactor performance, fabrication and installation of an APCVD reactor, performance of dry runs to verify reactor performance, performance of one-dimensional modeling of CdTe PV device performance, and development of a detailed plan for quantification of grain-boundary effects in polycrystalline CdTe devices.



[Read Atmospheric Pressure Chemical Vapor Deposition of Cdte for High Efficiency Thin Film Pv Devices: Annual Report Online](#)



[Download PDF Atmospheric Pressure Chemical Vapor Deposition of Cdte for High Efficiency Thin Film Pv Devices: Annual Report](#)

## See Also



**[PDF] Barabbas Goes Free: The Story of the Release of Barabbas Matthew 27:15-26, Mark 15:6-15, Luke 23:13-25, and John 18:20 for Children**

Follow the web link below to read "Barabbas Goes Free: The Story of the Release of Barabbas Matthew 27:15-26, Mark 15:6-15, Luke 23:13-25, and John 18:20 for Children" PDF document.

[Download ePub »](#)



**[PDF] Singing to the End of Life: Life s Outtakes - Year 5**

Follow the web link below to read "Singing to the End of Life: Life s Outtakes - Year 5" PDF document.

[Download ePub »](#)



**[PDF] Weebies Family Halloween Night English Language: English Language British Full Colour**

Follow the web link below to read "Weebies Family Halloween Night English Language: English Language British Full Colour" PDF document.

[Download ePub »](#)



**[PDF] Baby Bargains Secrets to Saving 20 to 50 on Baby Furniture Equipment Clothes Toys Maternity Wear and Much Much More by Alan Fields and Denise Fields 2005 Paperback**

Follow the web link below to read "Baby Bargains Secrets to Saving 20 to 50 on Baby Furniture Equipment Clothes Toys Maternity Wear and Much Much More by Alan Fields and Denise Fields 2005 Paperback" PDF document.

[Download ePub »](#)



**[PDF] Fun to Learn Bible Lessons Preschool 20 Easy to Use Programs Vol 1 by Nancy Paulson 1993 Paperback**

Follow the web link below to read "Fun to Learn Bible Lessons Preschool 20 Easy to Use Programs Vol 1 by Nancy Paulson 1993 Paperback" PDF document.

[Download ePub »](#)



**[PDF] Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities**

Follow the web link below to read "Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities" PDF document.

[Download ePub »](#)