



# Physics colostate groups photovoltaic

The CSU Physics Department strives to educate incoming generations in the most fundamental science, for the sake of knowledge and a better world. Contact our Key Advisor, Dr. Marty Gelfand, with any questions about our undergraduate program. For registration issues or override requests, please contact our Undergraduate Coordinator, Raina Doyle, at Raina.Doyle@colostate .

Solar energy is considered the primary source of renewable energy on earth; and among them, solar irradiance has both, the energy potential and the duration sufficient to match mankind future ...

Mechanical engineering at Colorado State University is about using our knowledge of materials, energy, and health to solve society's global engineering challenges. ... Dr. Sampath's research includes all aspects of CdTe thin film photovoltaics including basic physics to manufacturing technology. ... The CdTe PV research group includes 25 ...

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A schematic of one interconnect section of our monolithic module model is shown in Fig. 1 where the lateral current density,  $J$ , flows through the electrodes and is fed by the transverse current densities (lower case  $j$ 's). The module model is based on the idea that each cell is comprised of electrical circuit elements connected in parallel to each other via a bottom ...

Multijunction solar cells are the first photovoltaic technology to surpass single-junction Shockley-Queisser theoretical efficiency limits, and represent the highest efficiency of any solar cell technology.

The mission of the CSU Department of Physics is to conduct high-quality research worthy of international recognition. We strive to perform excellent teaching and mentoring for both undergraduate and graduate physics students, and serve students in other disciplines that take our courses and participate in available research opportunities.

Department of Physics, Colorado State University, Fort Collins, Colorado 80523, USA Received 14 November 2007; accepted 10 January 2008; published online 31 January 2008 This letter reports a piezoresistive effect in a double-barrier resonant tunneling DBRT structure. In a DBRT system, an external mechanical stress causes a tensile strain ...

Department of Physics, University of Durham, South Road, Durham DH1 3LE, UK ... Physics Department, Colorado State University, Fort Collins, CO 80525, USA. Search for more papers by this author. Glenn Teeter, Glenn Teeter. National Renewable Energy Laboratory, 1617 Cole Blvd. MS 3215, Golden, CO



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80401-3393, USA.

Shading-induced failure in thin-film photovoltaic modules: Electrothermal simulation with nonuniformities M. Nardonea\*, S. Dahala, J.M. Waddlea a Department of Physics and Astronomy, Bowling Green State University, Bowling Green, OH 43403, USA Abstract Finite element electrothermal modeling is employed to study shading-induced failure in monolithically ...

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The CSU Photovoltaic lab tests thin-film solar cells. The Dazzling Effect of Thin-Film Solar Cells. For many years, Sites has focused on the applications of cadmium-telluride and other thin-film...

Our group does detailed experimental studies and modeling of photovoltaic devices, particularly those based on thin-film, polycrystalline CuInS and CdTe. Much of our effort is devoted to quantifying specific mechanisms for loss of efficiency.

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group I (Cu) and group III (In or Ga) elements on the group II (Zn) sites of sphalerite. o Tetragonal unit cell, c/a close to 2. o Deviation from c/a = 2 due to different strengths for Cu-Se and In- Se, Ga-Se bonds. Group: I III VI From "Cu(InGa)Se<sub>2</sub> Solar Cells", by Shafarman and Stolt, and Wikipedia

Sustainability related research in the group of Professor Richard Finke takes shape in several forms: (i) catalysis, the most fundamental topic underlying sustainable chemistry, including kinetics and mechanisms of catalytic processes; (ii) solar energy conversion via water-oxidation catalysis to form hydrogen fuels; and (iii) capture of the ...

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