

Who wrote the Handbook of Photovoltaic Science & Engineering?

Handbook of photovoltaic science and engineering /edited by Antonio Luque and Steven Hegedus. p. cm. Includes bibliographical references and index. ISBN 0-471-49196-9 (alk. paper) 1. Photovoltaic cells. 2. Photovoltaic power generation. I. Luque,A. (Antonio) II. Hegedus,Steven.

What is a good photovoltaic Handbook?

"Together with well-organized references and index, this handbook I recommended for libraries with scientific collections..." (E-Streams, Vol. 7, No. 6) Handbook of Photovoltaic Science and Engineering incorporates the most recent technological advances and research developments in photovoltaics.

Who is Professor Luque?

Professor Luque is also the author of numerous publications. Steven Hegedus was appointed Fellow in the University of Delaware's Center for Energy and Environmental Policy in 2005. He has worked as a Semiconductor Device Engineer for IBM Corporation in New York, modeling, testing and designing analog and digital integrated circuit devices.

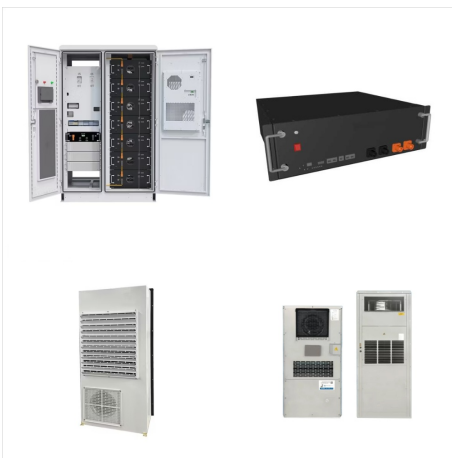
Who is Antonio Luque?

Antonio Luque became a full professor of Electronics at the University of Madrid in 1970 and soon became head of the Semiconductor Laboratory (now the Institute for Solar Energy). Isofoton, the 8th world producer of solar cell, was founded on Antonio's invention of the Bifacial Cell.

# HANDBOOK OF PHOTOVOLTAIC SCIENCE AND ENGINEERING ANTONIO LUQUE LÃ³PEZ 2003



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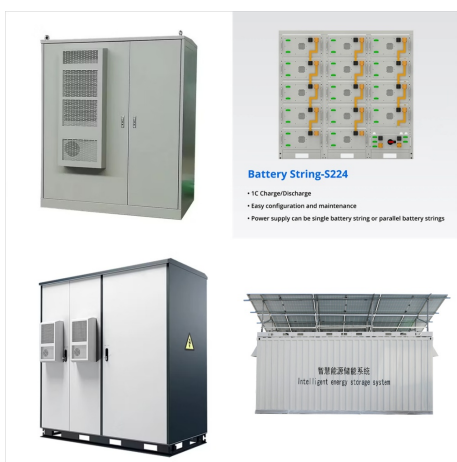


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Book Editor(s): Antonio Luque, Antonio Luque.  
Instituto de Energía Solar Universidad Politécnica de Madrid E.T.S.I. Telecomunicación 28040 Madrid Spain. Handbook of Photovoltaic Science and Engineering, Second Edition. References; Related; Information; Close Figure Viewer. Return to Figure. Previous Figure Next Figure.



Handbook of Photovoltaic Science and Engineering, 2nd Edition Antonio Luque (Editor), Steven Hegedus (Co-Editor) E-Book 978-0-470-97612-8 March 2011 \$288.00 Hardcover 978-0-470-72169-8 January 2011 \$359.75 O-Book 978-0-470-97470 ???



The Handbook of Photovoltaics will be a "benchmark" publication for those involved in the design, manufacture and use of these devices. The Handbook covers the principles of solar cell function, the raw materials, photovoltaic systems, standards, calibration, testing, ???

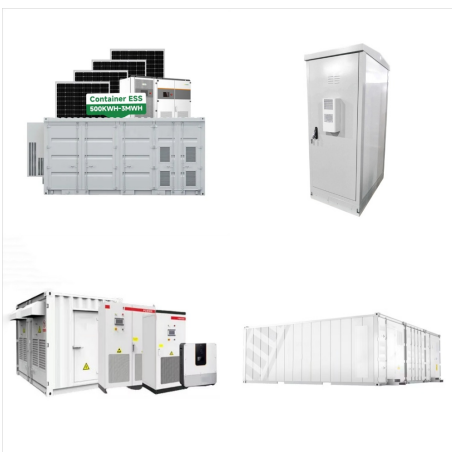
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About the Editors. List of Contributors. Preface to the 2nd Edition. 1 Achievements and Challenges of Solar Electricity from Photovoltaics (Steven Hegedus and Antonio Luque). 1.1 The Big Picture. 1.2 What is Photovoltaics? 1.3 Photovoltaics Today. 1.4 The Great Challenge. 1.5 Trends in Technology. 1.6 Conclusions. 2 The Role of Policy in PV Industry Growth: Past, ???



Handbook of Photovoltaic Science and Engineering. Edited by A. Luque and S. Hegedus 2003 John Wiley & Sons, Ltd ISBN: 0-471-49196-9 256 CRYSTALLINE SILICON SOLAR CELLS AND MODULES Table 7.1 Breakdown of costs of fabrication of single-crystalline (SX) and multicrystalline (MC) solar cells (corresponding to year 1990) [1] Item SX MC



Antonio Luque. Instituto de Energíªa Solar Universidad Politécnica de Madrid E.T.S.I. Telecomunicación 28040 Madrid Spain PV Generator Behaviour Under Real Operation Conditions. Reliability and Sizing of Stand-alone PV Systems. Handbook of Photovoltaic Science and Engineering, Second Edition. References; Related; Information; Close



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top cell  $E_g = 1.85$  eV p/n tunnel junction n/p GaAs  
bottom cell  $E_g = 1.42$  eV GaAs or Ge substrate Au  
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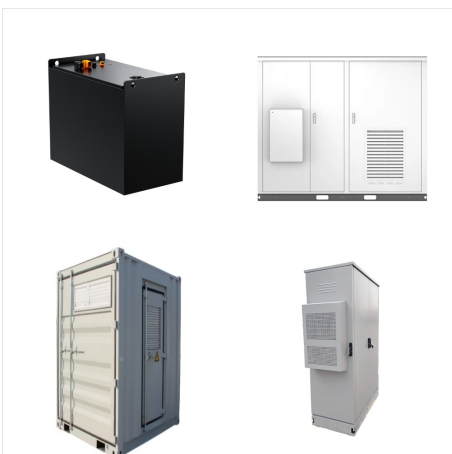
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4 Theoretical Limits of Photovoltaic Conversion and New-generation Solar Cells ( Antonio Luque and Antonio Marti ). 4.1 Introduction. 4.2 Thermodynamic Background. 4.3 Photovoltaic Converters. 4.4 The Technical Efficiency Limit for Solar Converters. 4.5 Very-high-efficiency Concepts. 4.6 Conclusions. the Handbook of Photovoltaic Science and



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power generation???Handbooks, manuals, etc. I.  
Luque, A. (Antonio) II. Hegedus, Steven.  
TK8322.H33 2010



List of Contributors. Status, Trends, Challenges and  
the Bright Future of Solar Electricity from  
Photovoltaics (S. Hegedus and A. Luque). Motivation  
for Photovoltaic Application and Development (J.  
Luther). The Physics of the Solar Cell (J.  
Gray). Theoretical Limits of Photovoltaic Conversion  
(A. Luque and A. Marti). Solar Grade Silicon  
Feedstock (B. Ceccaroli and O. ???)



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Antonio Luque, Steven Hegedus. Wiley, Jul 7, 2003  
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Summary: Fully revised and updated, the Handbook of Photovoltaic Science and Engineering, Second Edition incorporates the substantial technological advances and research developments in photovoltaics since its previous release. All topics relating to the photovoltaic (PV) industry are discussed with contributions by distinguished international experts in the field



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Steven Hegedus and Antonio Luque I.1 The Big Picture 1.2 What is Photovoltaics? 1.2.1 Rating of PV Modules and Generators 1.2.2 Collecting Sunlight: Tilt, Orientation, Tracking and Shading 1.2.3 PV Module and System Costs and Forecasts 1.3 Photovoltaics Today 1.3.1 But First, Some PV History 1.3.2 The PV Picture Today



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