1. Record Nr. UNINA9910451698403321 Autore Goswami D. Yogi Titolo Advances in Solar Energy: Volume 17: An Annual Review of Research and Development in Renewable Energy Technologies / / by D. Yogi Goswami Pubbl/distr/stampa Boca Raton, FL:,: Taylor and Francis, an imprint of Routledge,, [2015] ©2007 **ISBN** 1-317-74087-4 1-315-79322-9 600-00-0134-7 1-4294-8004-1 Edizione [First edition.] Descrizione fisica 1 online resource (337 p.) Advances in solar energy;; 17 Collana Disciplina 621.47 Soggetti Solar energy Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Includes index. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Cover; Half Title; Title Page; Copyright Page; Foreword; Table of Contents; List of figures and tables; About the authors; 1 Alternative World Energy Outlook 2006: A Possible Path towards a Sustainable Future: 1.1 Winds of Change: The Transition Period: 1.2. Future Availability of Fossil and Nuclear Energy Sources; 1.3 Alternative World Energy Scenarios; Notes and References; Annex I: Renewable Energy Potentials; Annex II: Simulation Parameters for Renewable Energy Scenarios; Annex III: Growing Share of Renewable Energy since 1990; 2 Quantum Well Solar Cells; 2.1 History 2.2 Quantum Well Electronic Structure 2.3 Basic Operation of the P-I-N Quantum Well Solar Cell; 2.4 Near-term Applications for Quantum Well Solar Cells; 2.5 Efficiency Limits; 2.6 Conclusion; Acknowledgements; References; 3 Recent Progress of Organic Photovoltaics; 3.1 Introduction; 3.2 Organic versus Inorganic Semiconductors; 3.3 Organic/Polymeric Solar Cell Developments; 3.4 Organic Solar Cell

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8 Solar Energy Technology in the Middle East and North Africa (MENA) for Sustainable Energy, Water and Environment

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