1. Record Nr. UNINA9910779150103321 Autore Syed Asif Titolo Advanced building technologies for sustainability [[electronic resource] /] / Asif Syed Pubbl/distr/stampa Hoboken, N.J., : John Wiley & Sons, Inc., c2012 **ISBN** 1-118-25980-7 1-280-67878-X 9786613655714 1-118-26019-8 Descrizione fisica 1 online resource (258 p.) Collana Sustainable Design;; v.3 720.47 Disciplina 720/.47 Soggetti Sustainable buildings Sustainable design **Building - Technological innovations** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Advanced Building Technologies for Sustainability; Acknowledgments; Nota di contenuto Contents: Introduction: Chapter 1: Sustainability and Energy: Quality of Life Benefits; Finite Fossil Fuel Resources; Greenhouse Gases; Profits and Savings from Energy Efficiency; Site-to-Source Effect; New LEED Version 2009; Per Capita Energy Consumption; Building Energy End-Use Splits, People Use Energy; Carbon Footprint; Embodied Energy Versus Operational Energy; Funding Opportunities; Chapter 2: Radiant Cooling; History; Introduction; Why Radiant Cooling?; Applications; Public Spaces, Radiant Cooling Floors Floor ConstructionOffice Buildings, Radiant Ceiling Panels; Laboratories: Radiant Ceiling Panels; Residential; College Dormitories; Hospitals; Radiant Cooling and Historic Preservation; Chapter 3: Displacement Ventilation; History; Introduction; Conventional or Mixed-

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Practical solutions for sustainability In this timely guide, one of the world's leaders in advanced building technology implementation shows architects and engineers proven and practical methods for implementing these technologies in sustainably-designed buildings. Because of the very limited time architects are given from being awarded a project to concept design, this book offers clear and workable solutions for implementing solar energy, radiant heating and cooling floors, displacement ventilation, net zero, and more. It provides helpful tips and suggestions for architects a