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| Nota di contenuto | Cover; Frontmatter; Half Title Page; Title Page; Copyright; Preface; Guide to Usage of the Handbook by Professional Groups; Table of Contents; List of Contributors; Introduction; Part I: Solar Radiation; I: The Role of Solar Radiation Climatology in the Design of PV Systems; Part II: Solar Cells; Part IIa: Introduction; Part IIb: Crystalline Silicon Solar Cells; Part IIc: Thin Film Technologies; Part IId: Space and Concentrator Cells; Part IIe: Organic and Dye Sensitised Cells; Part III: Photovoltaic Systems; Part IIIa: Introduction; Part IIIb: Balance of System Components Part IIIc: Grid-Connected SystemsPart IIId: Space and Concentrator Systems; Part IIIe: Case Studies; Part IV: Testing, Monitoring and Calibration; IV-1: Standards, Calibration and Testing of PV Modules and Solar Cells; IV-2: PV System Monitoring; IV-3: Calibration, Testing and Monitoring of Space Solar Cells; Part V: Economics, Environment and Business Strategy; V-1: Overview of Potential Hazards; V-2: Energy Pay-Back Time and C02 Emissions of PV Systems; V-3: World Photovoltaic Markets; V-4: National and Regional Support Programmes; Backmatter; Appendix Appendix A: Constants, Physical Quantities and Conversion |

Factors Appendix B: List of Principal Symbols; Appendix C: Abbreviations and Acronyms; Appendix D: Bibliography; Appendix E: International and US Standards with Relevance to Photovoltaics; Appendix F: Useful Web Sites, Journals and Newsheets; Editorial Index; Back Cover

Sommario/riassunto

As part of the growing sustainable and renewable energy movement, the design, manufacture and use of photovoltaic devices is increasing in pace and frequency. 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, economics and case studies. The editors have assembled a cast of internationally-respected contributors from industry and academia. The report is
