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Nota di contenuto	Polymeric Materials for Solar Thermal Applications; Contents; About the Editors; List of Contributors; IEA Solar Heating and Cooling Programme; Acknowledgments; Part I; 1 Principles; 1.1 Introduction; 1.2 Solar Irradiance in Technical Applications; 1.3 Quantifying Useful Solar Irradiation; 1.4 Solar Thermal Applications; 1.5 Calculating the Solar Contribution; 1.6 Conclusions; 2 Solar Thermal Market; 2.1 Introduction; 2.2 Collector Types; 2.2.1 Unglazed Collectors; 2.2.2 Flat Plate Collectors (FPC); 2.2.3 Evacuated Flat Plate Collector (EFPC); 2.2.4 Evacuated Tube Collectors (ETC) 2.2.5 Concentrating Collectors2.2.6 Air Collectors; 2.2.7 Market Share of Different Collector Types; 2.3 Regional Markets; 2.4 Market Trends; 2.4.1 Global Market Development; 2.4.2 Global Market Forecast; 2.4.3 Focus on Europe; Links Providing Updated Market Data and Forecasts; References; 3 Thermal Solar Energy for Polymer Experts; 3.1 Solar

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Sommario/riassunto

Bridging the gap between basic science and technological applications, this is the first book devoted to polymers for solar thermal applications. Clearly divided into three major parts, the contributions are written by experts on solar thermal applications and polymer scientists alike. The first part explains the fundamentals of solar thermal energy especially for representatives of the plastics industry and researchers. Part two then goes on to provide introductory information on polymeric materials and processing for solar thermal experts. The third part combines both of these fields, dis