

1. Record Nr.	UNINA9910786407703321
Titolo	Solar energy // editors, H. Messel, S.T. Butler
Pubbl/distr/stampa	Oxford ; ; New York : , : Pergamon Press, , 1975
ISBN	1-4831-8772-1
Edizione	[First edition, reprinted with corrections.]
Descrizione fisica	1 online resource (466 pages)
Collana	Pergamon international library of science, technology, engineering, and social studies
Disciplina	621.31/244 621.31244 621.47
Soggetti	Solar energy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A course of lectures contributed in the 17th International Science School for High School Students sponsored by the Science Foundation for Physics within the University of Sydney, at the University of Sydney, August 26, September 6, 1974."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover image; Title page; Table of Contents; Some other books of interest; Copyright; PREFACE; CONTRIBUTORS OF LECTURES; THE SPONSORS; PART I: World Energy Resources and Consumption; Introduction to World Energy Resources and Consumption; Introduction; Publisher Summary; WORLD ENERGY RESOURCES; Chapter 1: Nuclear Fission, Nuclear Fusion & Geothermal Energy; Publisher Summary; NUCLEAR FUSION ENERGY; ACKNOWLEDGEMENTS; PART II: Energy Conversion, The Atmospheric Environment and Climatic Change; Introduction to Energy Conversion, The Atmospheric Environment and Climatic Change Chapter 2: The Atmospheric Environment and Climatic Change Publisher Summary; PART III: The Nature of Solar Energy Optical Magnification of Solar Radiation; Introduction to The Nature of Solar Energy Optical Magnification of Solar Radiation; Chapter 3: The Nature of Solar Energy; Publisher Summary; Chapter 4: Optical Magnification of Solar Radiation; Publisher Summary; PART IV: Biological Conversion of Solar Energy; Introduction to Biological Conversion of Solar Energy; Chapter 5: Energy Exchange in the Living World; Publisher Summary; Chapter 6: Solar Energy Conversion in Photosynthesis

Publisher Summary Chapter 7: Conversion of Plant Materials to Liquid and Gaseous; Publisher Summary; PART V: Batteries; Introduction to Batteries; Chapter 8: Batteries; Publisher Summary; Chapter 9: Fuel Cells; Publisher Summary; PART VI: Thermal Conversion and Solar Devices Today; Introduction to Thermal Conversion and Solar Devices Today; Chapter 10: Water Heating and Steam Generation; Publisher Summary; Chapter 11: Building Heating and Cooling; Publisher Summary; Chapter 12: Desalination and Drying; Publisher Summary; SOLAR DRYING; SOLAR DESALINATION; LIST OF SYMBOLS PART VII: Direct Solar Production of Electricity Introduction to Direct Solar Production of Electricity; Chapter 13: Sunlight and Electrons; Publisher Summary; PART VIII: Selective Surfaces; Introduction to Selective Surfaces; Chapter 14: Selective Surfaces As Solar Energy Collectors; Publisher Summary; PART IX: Heat Transfer and Storage; Introduction to Heat Transfer and Storage; Chapter 15: Heat Transfer and Storage; Publisher Summary; INDEX

Sommario/riassunto

Nine lectures concerning specialized aspects of solar energy such as thermal conversion, the nature of solar energy, and heat transfer and storage.