

1. Record Nr.	UNINA9911098396803321
Autore	Rabl Ari
Titolo	Active solar collectors and their applications / / Ari Rabl
Pubbl/distr/stampa	New York, : Oxford University Press, 1985
ISBN	1-280-52300-X 9786610523009 0-19-536521-6 1-4294-0091-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (xiv, 503 pages) : illustrations
Disciplina	621.47
Soggetti	Solar collectors Solar energy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographies and indexes.
Nota di contenuto	Contents; 1 SURVEY OF SOLAR EQUIPMENT AND APPLICATIONS; 2 SOLAR GEOMETRY; 3 INSOLATION DATA AND MODELS; 4 COLLECTOR EFFICIENCY AND COLLECTOR TESTING; 5 FUNDAMENTALS OF OPTICS FOR SOLAR COLLECTIONS; 6 OPTICS OF NONTRACKING COLLECTORS; 7 TRACKING CONCENTRATOR TYPES; 8 OPTICAL ANALYSIS AND OPTIMIZATION OF PARABOLIC REFLECTORS; 9 HEAT TRANSFER IN SOLAR COLLECTORS; 10 HEAT TRANSFER FACTORS; 11 SYSTEM MODELS; 12 APPLICATIONS; 13 PRACTICAL CONSIDERATIONS; 14 ECONOMIC ANALYSIS; 15 SYSTEM OPTIMIZATION; Appendix A: Nomenclature; Appendix B: Units; Appendix C: Properties of Materials; Appendix D: Meteorological Data Appendix E: Circumsolar Data; Index; Subject Index
Sommario/riassunto	Provides a survey of solar geometry and meteorological data, the optics of various kinds of solar collectors, the mechanics of heat transfer, and private elements of system deign, optimization, and economic analysis. Also discussed are testing, methods and materials, and tracking and nontracking collectors.