



Nonimaging Optics in Solar Energy

By Joseph J. O'Gallagher

Morgan & Claypool. Paperback. Book Condition: New. Paperback. 120 pages. Dimensions: 9.1in. x 7.5in. x 0.6in. Nonimaging optics is a subdiscipline of optics whose development over the last 3540 years was led by scientists from the University of Chicago and other cooperating individuals and institutions. The approach provides a formalism that allows the design of optical devices that approach the maximum physically attainable geometric concentration for a given set of optical tolerances. This means that it has the potential to revolutionize the design of solar concentrators. In this monograph, the basic practical applications of the techniques of nonimaging optics to solar energy collection and concentration are developed and explained. The formalism for designing a wide variety of concentrator types, such as the compound parabolic concentrator and its many embodiments and variations, is presented. Both advantages and limitations of the approach are reviewed. Practical and economic aspects of concentrator design for both thermal and photovoltaic applications are discussed as well. The whole range of concentrator applications from simple low-concentration nontracking designs to ultrahigh-concentration multistage configurations is covered. Table of Contents: Introduction CPCs Practical Design of CPC Thermal Collectors Practical Design of CPC PV Concentrators Two-Stage Nonimaging Concentrators for Solar Thermal Applications Two-Stage...



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