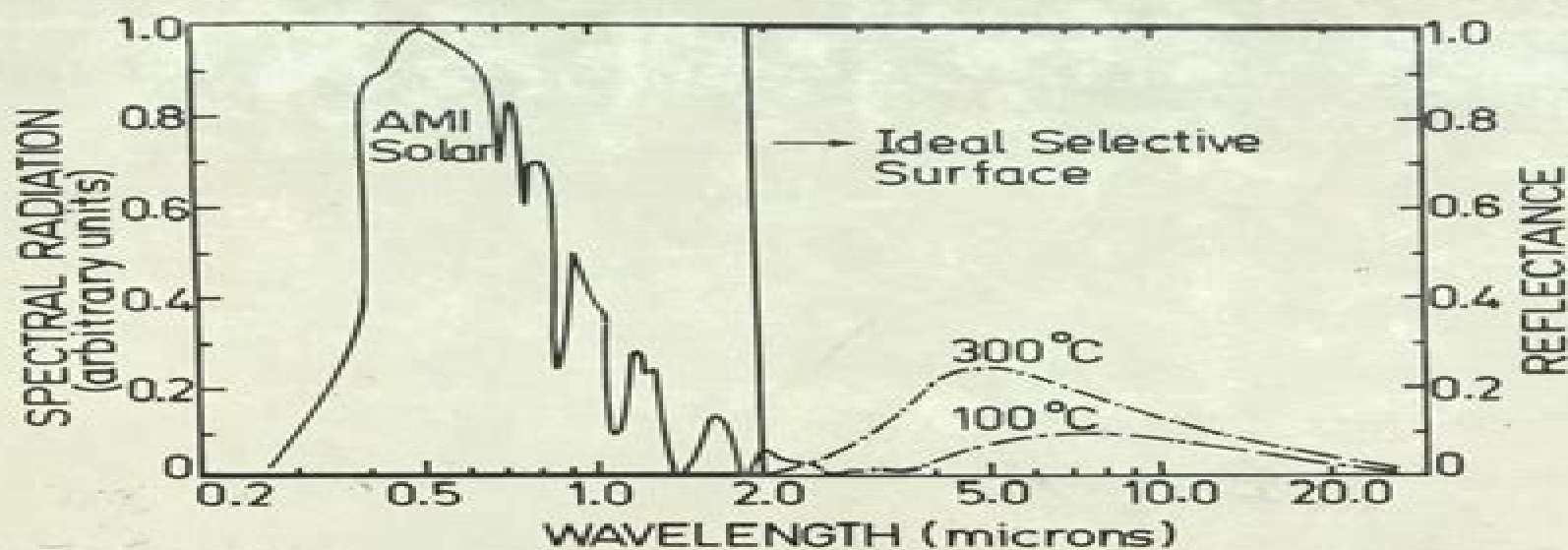


SOLAR SELECTIVE SURFACES



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Wiley Alternate Energy Series

Solar Selective Surfaces

Marten Sikkens



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Solar Selective Surfaces O. P. Agnihotri, B. K. Gupta, 1981-04-13 Covers the design production evaluation and application of surfaces having high absorptance in the solar spectrum and low emittance at the operating temperature of the solar collection system Presents current significant data on the enhancement of solar collector efficiency by the use of selective surfaces *Characterization of Solar Selective Surfaces at High Temperatures* Jürgen Eitle, 1992 **Solar Energy Update**, 1981 *Sputtered Solar Selective Surfaces* Stuart Craig, 1982 **Solar Selective Coatings**, 1977 The definition fabrication and specification of solar selective absorber surfaces are discussed Also the nature of solar radiation and thermal radiation in relation to selective surfaces is considered WHK *Solar Selective Absorbers* Belal Usmani, Ambesh Dixit, Vivek Vijay, Rahul Chhibber, 2024-11-29 Solar Selective Absorbers Materials Coatings and Applications covers different harnessing technologies for solar energy electromagnetic radiation including design principles and different types of spectrally selective coatings The book emphasizes experimental methods for synthesizing these coating structures and characterization techniques to quantify the absorber characteristics suitable for solar thermal applications It also provides a compact review of the literature on solar spectrally selective absorber materials and coatings Summarizes the materials deposition and characterization techniques and applications of solar selective absorbers Introduces solar selective absorber materials and photothermal technology Explores electrodeposition techniques and their use in the development of solar selective absorber films Provides understanding of solar selective absorber materials and coating techniques in photothermal technology Explains sputtering techniques and their use in the development of ZrO₂ ZrC ZrN Zr tandem structure based solar selective absorber films The book is aimed at researchers and graduate students in solar energy solar thermal conversion and materials science **Spectrally Selective Solar Energy Materials** Marten Sikkens, 1980 *The Chemical and Morphological Structure of Solar Selective Surfaces* Peter Hillery, 1983 *Spectral-selective Surfaces for the Thermal Conversion of Solar Energy* Marcel van der Leij, 1979 *Solar energy*, 1964 **Spectrally Selective Surfaces for Heating and Cooling Applications** Claes G. Granqvist, 1989 This Tutorial Text covers coatings and surface treatments for energy efficient windows of many different kinds for solar collectors and for radiative coolers The desired spectral properties of these surfaces are introduced through a discussion of the radiation that prevails in our natural ambience Emphasized are materials options coating techniques experimental data on optical properties theoretical models for pertinent materials and optimization studies with regard to practical applications The book should be of interest to people working R D in industry universities and national and international institutions who are engaged in issues related to energy efficiency and solar energy utilization **Flat Plate Solar Collectors and Their Application to Dwellings A.** Eggers-Lura, 1976 **Selective Optical Surfaces for Solar Energy Converters** Mark Mikhaïlovich Koltun, 1981 **Energy**, 1983 A selection of annotated references to unclassified reports and journal articles that were introduced into

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