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contents follow a systems approach that is absent in standard handbooks of optics or solar energy. Nonimaging Fresnel Lenses | SpringerLink Abstract. During the design of nonimaging Fresnel lenses, the reflectance losses at the refracting surfaces should be taken into account because, depending on the parameters of each prism, semiacceptance angle and output angle , these losses can decrease the total efficiency of the lens. On this subject, an analysis and comparison between a Fresnel lens composed only of refractive prisms and others with total internal reflection (TIR) prisms are presented and, using this information, a ... Mathematical Analysis of Nonimaging Fresnel Lenses Using ... An optimum

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convex shaped nonimaging Fresnel lens is designed following the edge ray principle. The lens is evaluated by tracing rays and calculating a projective optical concentration ratio. This Fresnel lens is intended for use in evacuated tube type solar concentrators, generating mid-temperature heat to drive sorption cycles, or provide industrial process heat. DESIGN OF A NONIMAGING FRESNEL LENS FOR SOLAR ... a nonimaging optics design method known in the field as the simultaneous multiple surface (SMS) or the Miñano-Benitez design method. The abbreviation SMS comes from the fact that it enables the simultaneous design of multiple optical surfaces. The original idea came from Miñano. Nonimaging optics - Wikipedia Fresnel lens is

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found to simplify the system structure and enhance the performance of photovoltaic systems. The flat and arched shape Fresnel lens surfaces are designed, respectively, based on 2D... (PDF) Design and machining of Fresnel solar concentrator ... This research shows that in a Fresnel lens the chromatic aberration can be manipulated via lens design to provide more appropriate color mix at the absorber for the need of different solar applications. The wavelength intervals near the design wavelength have a tendency to form more uniform and more concentrated fluxes in the target center. Optical geometry approach for elliptical Fresnel lens ... On this subject, the design of nonimaging Fresnel lenses

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integrated by refractive and total internal reflection prisms is presented. This design method uses iterative calculations for design every prism and it selects the best option for avoid reflectance losses. Optimization design of nonimaging Fresnel lens using total ... Nonimaging achromatic shaped Fresnel lenses for ultrahigh solar concentration The amount of renewable solar energy making it into our power grids could see a substantial increase with the invention of cheap, simple and efficient designs for solar concentration. OSA | Nonimaging achromatic shaped Fresnel lenses for ... A Fresnel lens (/ ' f r eɪ n-, ' f r ε n. ε l,-əɪ / FRAYN-, FREN-el, -əɪ, / f r eɪ ' n ε l / fray-NEL or / ' f r ε z n ə l / FREZ-nəl) is a type of composite compact

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lens originally developed by French physicist Augustin-Jean Fresnel (1788–1827) for lighthouses. It has been called "the invention that saved a million ships." The design allows the construction of lenses of ... Fresnel lens - Wikipedia This book offers a detailed and comprehensive account of the engineering of the world's first nonimaging Fresnel lens solar concentrator. The book closes a gap in solar concentrator design, and describes nonimaging refractive optics and its numerical mathematics . Nonimaging Fresnel Lenses: Design and Performance of Solar ... Nonimaging Fresnel Lenses : Design and Performance of Solar Concentrators. [Ralf Leutz; Akio Suzuki] -- This book offers a detailed and

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comprehensive account of the engineering of the world's first nonimaging Fresnel lens solar concentrator. Nonimaging Fresnel Lenses : Design and Performance of ... [5] F. Erismann, Design of a plastic aspheric Fresnel lens with a spherical shape. Optical Engineering 36 (4) (1997) 988-992. [6] R. Leutz, Nonimaging Fresnel Lenses, Springer-Verlag Berlin Heidelberg, Nonimaging Fresnel Lens Design, 2001, 77-99.

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