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Nonimaging Fresnel Lenses: Design and Performance of Solar Concentrators; what are we talking about? It is easy to forget that you, dear reader, may not be one of those who work in exactly the same field as we do: nonimaging optics for the concentration of sunlight. You may be a researcher in some

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A Fresnel lens is essentially a chain of prisms. Each prism represents the slope of the lens surface, but without the material of the full body of the conventional singlet. The imaging Fresnel lens refracts light from an object

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and forms an image in the focal plane.

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An optimum 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.

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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.

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For the design of a nonimaging Fresnel lens it is necessary to design, using an iterative method, each prism considering, as input parameters, the acceptance semiangle (this work only covers the nonimaging lenses with only

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one acceptance semiangle, but, according to Leutz et al., it is possible to design a lens with cross-sectional acceptance semiangle and perpendicular acceptance semiangle θ_p), the refractive index in terms of the wavelength range from its shortest wavelength λ_{min} , to the highest ...

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Facular point image quality of Fresnel lens is investigated by simulation for lens battery design. As for the Fresnel lens with 100mm in diameter, 220mm in focal length, when incident angle is ...

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A Fresnel lens (/ ' f r eɪ n-, ' f r ε n. ε l,-ə l / FRAYN-, FREN-el, -ə l, / f r eɪ ' n ε l / fray-NEL or / ' f r ε z n ə l / FREZ-nəl) is a type of composite compact lens originally developed by French physicist Augustin-Jean Fresnel (1788–1827) for

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lighthouses. It has been called "the
invention that saved a million ships."
The design allows the construction of
lenses of ...

Fresnel lens - Wikipedia

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Both lenses with the Fresnel structure
diameter of 13.5 mm were formed on an

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80 μm thick HDPE layer of the Si-HDPE hybrid substrate. The Si-HDPE hybrid micro Fresnel lens structure design is shown schematically in Fig. 2(a), and its parameters summarized in Table 1.

Design and fabrication of Si-HDPE hybrid Fresnel lenses ...

The design of shaped Fresnel lenses was

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proposed by Leutz et al., 1999, Leutz and Suzuki, 2001 based on the theory of non-imaging optics. It allows Fresnel lenses with curved surface, for example, arch shape or dome shape. Dome shaped Fresnel lens array was also developed by Piszczor et al. (1991) for solar

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The efficiency in Fresnel lenses is affected by three principal sources: energy loss by absorption, chromatic dispersion and reflectance losses at refracting surfaces. On this subject, the design of nonimaging Fresnel lenses integrated by refractive and total

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internal reflection prisms is presented. This design method uses iterative calculations for design every prism and it selects the best ...

Optimization design of nonimaging Fresnel lens using total ...

Considering the excellent performance of the solar cell at high concentrations sunlight, o

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neofthepurposesofourwork is to design a nonimaging Fresnel lens used in CPVs with a high concentration factor and an aspect ratio of a relatively small value.

Research Article Design and Optimization of Fresnel Lens ...

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Ralf Leutz, Akio Suzuki. Springer, 2001.

This is a detailed technical look at using Fresnel lenses in renewable energy applications, but several of the chapters are more generally interested.

How do Fresnel lenses work? - Explain that Stuff

Design and evaluation of the Fresnel-

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lens based solar concentrator system
through a statistical-algorithmic
approach. Paper presented at the ASME
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