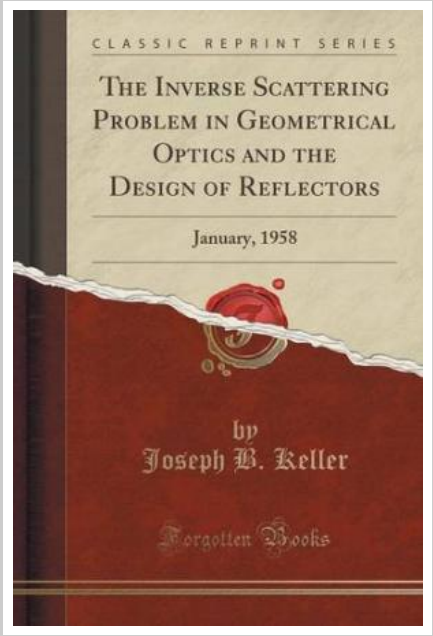

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The Inverse Scattering Problem in Geometrical Optics and the Design of Reflectors: January, 1958 (Classic Reprint) (Paperback)

By Joseph B Keller

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Inverse Scattering Problem in Geometrical Optics and the Design of Reflectors: January, 1958 1. Introduction When radiation of any type is incident upon an object some of the radiation is scattered in all directions by the object. The direct problem of the theory of scattering is that of determining the intensity of the radiation scattered in each direction when the properties of the incident radiation as well as those of the object are known. The inverse scattering problem is that of determining the properties of the scattering object when the incident radiation and the intensity of the radiation scattered in each direction are known. This latter problem has been studied extensively in atomic and nuclear physics by the methods of quantum mechanics and, to some extent, by classical mechanics. The classical mechanical solution is also applicable to the scattering of light (or other radiation obeying the laws of geometrical optics) by a region in which the index of refraction varies in any continuous spherically symmetric manner. We now propose to consider the inverse problem...

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