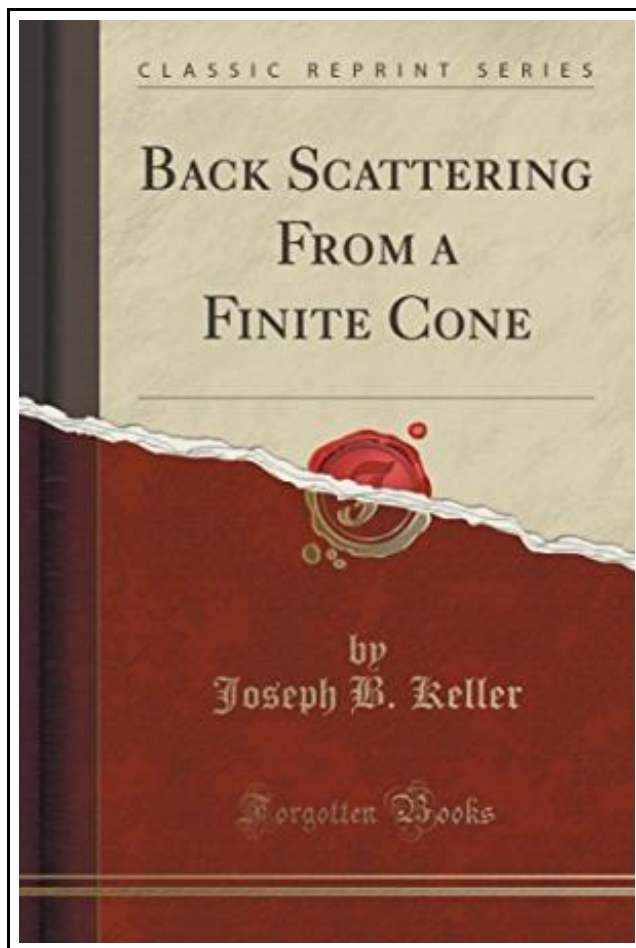# Back Scattering from a Finite Cone (Classic Reprint)

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Reviews

Extremely helpful to all of group of individuals. It really is loaded with knowledge and wisdom Its been designed in an extremely basic way and is particularly simply after i finished reading through this ebook where actually altered me, affect the way i believe.
(Lily Ryan)

BACK SCATTERING FROM A FINITE CONE (CLASSIC REPRINT)

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Back Scattering From a Finite Cone The back scattering from a finite cone is calculated in this report by means of the geometrical theory of diffraction. Three different physical problems are considered. One is that of an acoustic wave incident upon a rigid cone. The second is that of an acoustic wave incident upon a perfectly soft (pressure-release) cone. The third, and perhaps most important, is that of an electromagnetic wave incident upon a perfectly conducting cone. In all cases two different types of cones are treated. One is a truncated right circular cone with a flat base. The other has a rounded base which is a portion of a sphere. The sphere and cone join smoothly, with no sharp edge. For simplicity the incident wave is assumed to be plane and only the back-scattered field is found, although both of these limitations could easily be removed. The theory employed here represents the back-scattered field as a superposition of fields on various rays. Some of these are the ordinary optical rays which are reflected from the cone and the others are diffracted rays. In the next section the various rays are described and a qualitative description of the back scattering process is given. In Sections 3-5 the quantitative results are derived and examined. Graphs of the back scattering cross section are also presented. In the conclusion. Section 6, suggestions are made about shaping an object to minimize its back-scattering cross section. Most of the previous theoretical results on back scattering from cones have concerned semi-infinite cones. For such cones the acoustic diffraction problem was solved exactly and explicitly by H. S. Carslaw and the electromagnetic...

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