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Back Scattering from a Finite Cone (Classic Reprint)

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 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...

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