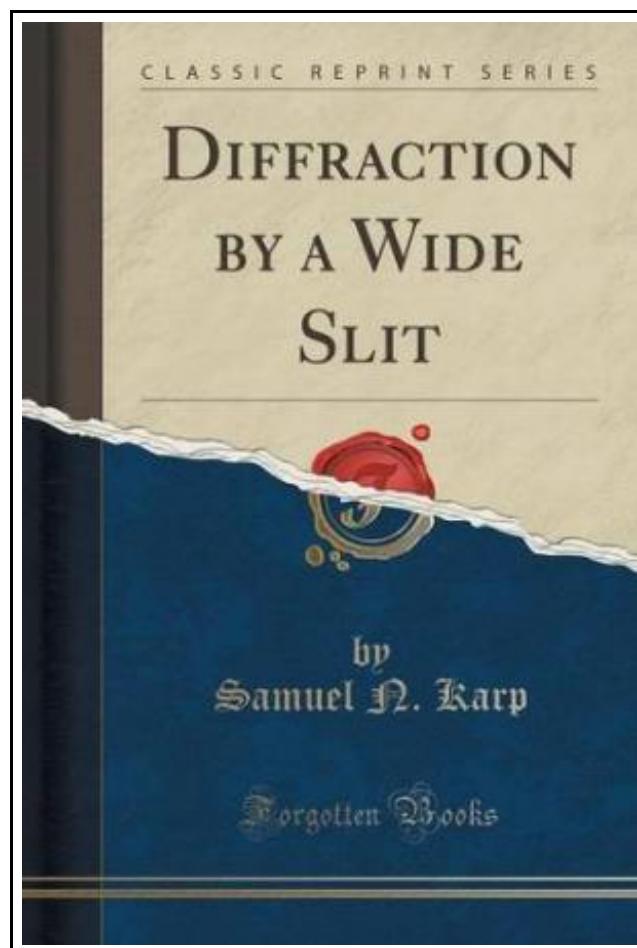


Diffraction by a Wide Slit (Classic Reprint) (Paperback)



Filesize: 8.62 MB

Reviews

These types of book is the greatest ebook readily available. I was able to comprehended every little thing using this published e pdf. I realized this pdf from my dad and i encouraged this publication to discover.

(Dr. Porter Mitchell)

DIFFRACTION BY A WIDE SLIT (CLASSIC REPRINT) (PAPERBACK)

[DOWNLOAD PDF](#)

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Diffraction by a Wide Slit Since there already exist numerous investigations of the diffraction of scalar waves by a slit, the addition of another item to the literature requires some explanation. The purpose of the present note is to give an elementary and intuitive account of the diffraction by an infinite conducting plane with a slit. We consider specifically the case of electromagnetic waves whose electric field possesses only a single component, namely a component in the direction parallel to the edges of the slit. The results are also applicable to the acoustic problem, for soft screens. It is found that the results for large slit widths can be expressed approximately in terms of simple well-known functions and that these approximations are more accurate than those conveniently obtainable by previous procedures. The procedures that have hitherto been proposed and applied to this problem fall into three categories. First, there is the exact theory based upon separation of variables in elliptic coordinates. This procedure is useful only when the ratio of slit width to wavelength is small (that is, say, smaller than 3), Second, there are approximation procedures that are valid when the ratio of slit width to wavelength is small. Such procedures, based on the solution of related electrostatic problems, were indicated by Rayleigh and have been Ca developed further by, e.g., Sommerfeld, Groschwitz and Honl, and Bouwkamp. Finally, there are approximate treatments valuable particularly for large ratios of slit widths to wavelength; among these are calculations based on Kirchoff's procedures and their various modifications, and the work of Schwarzschild. A calculation related to that of Schwarzschild has recently been published by Fox in...



[Read Diffraction by a Wide Slit \(Classic Reprint\) \(Paperback\) Online](#)
[Download PDF Diffraction by a Wide Slit \(Classic Reprint\) \(Paperback\)](#)

Related Books

**History of the Town of Sutton Massachusetts from 1704 to 1876 (Paperback)**

Createspace, United States, 2015. Paperback. Book Condition: New. annotated edition. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.This version of the History of the Town of Sutton Massachusetts...

[Download eBook »](#)

**Learn em Good: Improve Your Child s Math Skills: Simple and Effective Ways to Become Your Child s Free Tutor Without Opening a Textbook (Paperback)**

Createspace, United States, 2010. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.From a certified teacher and founder of an online tutoring website-a simple and...

[Download eBook »](#)

**How to Make a Free Website for Kids (Paperback)**

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Table of Contents Preface Chapter # 1: Benefits of Having a Website Chapter...

[Download eBook »](#)

**No Friends?: How to Make Friends Fast and Keep Them (Paperback)**

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Do You Have NO Friends ? Are you tired of not having any...

[Download eBook »](#)

**Never Invite an Alligator to Lunch! (Paperback)**

Lucky Me Publishing, LLC, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. NEVER Invite an Alligator to Lunch! delivers a fun,...

[Download eBook »](#)