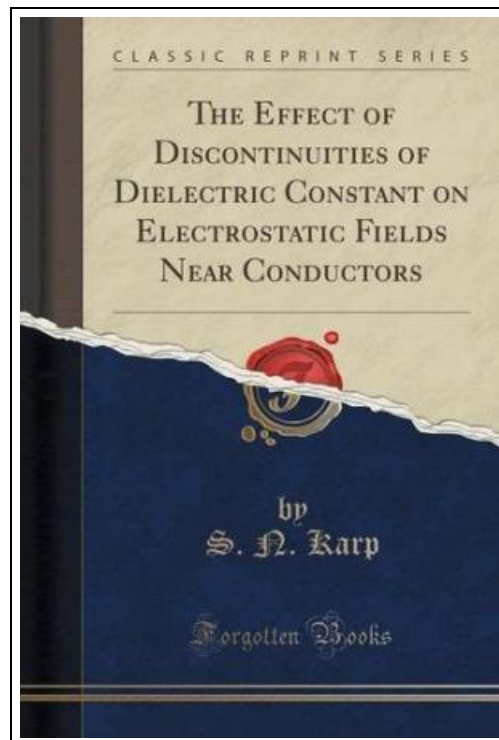


## The Effect of Discontinuities of Dielectric Constant on Electrostatic Fields Near Conductors (Classic Reprint)



Filesize: 7.81 MB

### **Reviews**

*This is actually the very best pdf i actually have study till now. I am quite late in start reading this one, but better then never. You will like just how the author publish this ebook.*  
(Junior Lesch)

## THE EFFECT OF DISCONTINUITIES OF DIELECTRIC CONSTANT ON ELECTROSTATIC FIELDS NEAR CONDUCTORS (CLASSIC REPRINT)

[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 The Effect of Discontinuities of Dielectric Constant on Electrostatic Fields Near Conductors It is well known that electric fields tend to become singular near sharp edges or peaks in conducting bodies. Bouwkamp, Meixner, Maue, Jones and others have discussed the character of the singularities and the restrictions which must be imposed on them to insure uniqueness and physical significance, in the case of locally wedge-shaped conductors in homogeneous media. The purpose of the present work is to investigate the effect of a discontinuity of medium on the singularity. The investigation is confined to the electrostatic case, but it is hoped that the information obtained may prove of some value also in the electromagnetic case, since both cases usually present similar behavior at singularities. In addition, the electrostatic results obtained may be of some intrinsic interest. Some of these results are independent of the form of the conductor. This investigation originated in an attempt to explain the phenomena which occur under certain conditions when irises in waveguides are covered with transparent plastics. It is observed that the plastic tends to become charred and pitted in the neighborhood of the edges of the screen. Since this phenomenon could be ascribed to the high field strength at an edge, it seemed to be of interest to determine how and whether the singularity of the field differs from that occurring when the aperture is left open. We proceed to outline the course of the investigation. In Section 2 we study the behavior of the singular part of the electrostatic solution in the neighborhood of the edge of a wedge-shaped conductor in the presence of two media with two...

[Read The Effect of Discontinuities of Dielectric Constant on Electrostatic Fields Near Conductors \(Classic Reprint\) Online](#)[Download PDF The Effect of Discontinuities of Dielectric Constant on Electrostatic Fields Near Conductors \(Classic Reprint\)](#)

## Other eBooks



**Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1624-1625)**

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now...

[Read Book »](#)



**Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625)**

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now you...

[Read Book »](#)



**The Tale of Jemima Puddle-Duck - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, The Tale of Jemima Puddle-Duck - Read it Yourself with Ladybird: Level 2, This is a gentle adaptation of the classic tale by Beatrix Potter. Jemima...

[Read Book »](#)



**California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package**

Pearson, United States, 2015. Loose-leaf. Book Condition: New. 10th. 249 x 201 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson. If purchasing or renting from companies...

[Read Book »](#)



**Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package**

Pearson, United States, 2015. Book. Book Condition: New. 10th. 250 x 189 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson. If purchasing or renting from companies...

[Read Book »](#)