

Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering)

From imusti

Download now

Read Online

Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti

Covering the theory, application, and testing of contact materials, **Electrical Contacts: Principles and Applications, Second Edition** introduces a thorough discussion on making electric contact and contact interface conduction; presents a general outline of, and measurement techniques for, important corrosion mechanisms; considers the results of contact wear when plug-in connections are made and broken; investigates the effect of thin noble metal plating on electronic connections; and relates crucial considerations for making high- and low-power contact joints. It examines contact use in switching devices, including the interruption of AC and DC circuits with currents in the range 10mA to 100kA and circuits up to 1000V, and describes arc formation between open contacts and between opening contacts. Arcing effects on contacts such as erosion, welding, and contamination are also addressed.

Containing nearly 3,000 references, tables, equations, figures, drawings, and photographs, the book provides practical examples encompassing everything from electronic circuits to high power circuits, or microamperes to mega amperes. The new edition:

- Reflects the latest advances in electrical contact science and technology
- Examines current research on contact corrosion, materials, and switching
- Includes updates and revisions in each chapter, as well as up-to-date references and new figures and examples throughout
- Delivers three new chapters on the effects of dust contamination, electronic sensing for switching systems, and contact phenomena for micro-electronic systems (MEMS) applications

With contributions from recognized experts in the field, **Electrical Contacts: Principles and Applications, Second Edition** assists practicing scientists and engineers in the prevention of costly system failures, as well as offers a comprehensive introduction to the subject for technology graduate students, by expanding their knowledge of electrical contact phenomena.

Download Electrical Contacts: Principles and Applications, ...pdf

Read Online Electrical Contacts: Principles and Applications ...pdf

Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering)

From imusti

Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti

Covering the theory, application, and testing of contact materials, **Electrical Contacts: Principles and Applications, Second Edition** introduces a thorough discussion on making electric contact and contact interface conduction; presents a general outline of, and measurement techniques for, important corrosion mechanisms; considers the results of contact wear when plug-in connections are made and broken; investigates the effect of thin noble metal plating on electronic connections; and relates crucial considerations for making high- and low-power contact joints. It examines contact use in switching devices, including the interruption of AC and DC circuits with currents in the range 10mA to 100kA and circuits up to 1000V, and describes arc formation between open contacts and between opening contacts. Arcing effects on contacts such as erosion, welding, and contamination are also addressed.

Containing nearly 3,000 references, tables, equations, figures, drawings, and photographs, the book provides practical examples encompassing everything from electronic circuits to high power circuits, or microamperes to mega amperes. The new edition:

- Reflects the latest advances in electrical contact science and technology
- Examines current research on contact corrosion, materials, and switching
- Includes updates and revisions in each chapter, as well as up-to-date references and new figures and examples throughout
- Delivers three new chapters on the effects of dust contamination, electronic sensing for switching systems, and contact phenomena for micro-electronic systems (MEMS) applications

With contributions from recognized experts in the field, **Electrical Contacts: Principles and Applications, Second Edition** assists practicing scientists and engineers in the prevention of costly system failures, as well as offers a comprehensive introduction to the subject for technology graduate students, by expanding their knowledge of electrical contact phenomena.

Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti Bibliography

- Sales Rank: #764313 in Books
- Brand: imusti
- Published on: 2013-12-17
- Original language: English
- Number of items: 1
- Dimensions: 10.20" h x 2.40" w x 7.30" l, 5.20 pounds
- Binding: Hardcover
- 1311 pages

Download Electrical Contacts: Principles and Applications, ...pdf

Read Online Electrical Contacts: Principles and Applications ...pdf

Download and Read Free Online Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti

Editorial Review

Review

"This is the book you want to own if you design or test electrical connectors or develop devices using switching or arcing contacts. … It provides the most comprehensive coverage of electrical contact theory, material selection, and switch design of any book on the market today, covering almost all electrical contacts below 1,000 V and some vacuum interrupter technology operating above 1,000 V."
?John J. Shea, Eaton Corporation, Moon Township, Pennsylvania, USA, from *IEEE Electrical Insulation Magazine*, May/June 2015

About the Author

Paul G. Slade began his studies in the fascinating world of electrical contacts as a graduate student at the University of Wales, Cardiff, UK in the mid-1960s. Since that time, he has been involved with electrical contacts both as a research scientist and as a developer of switching components. Currently retired, he ended his five decades of experience in electrical contact research first at the Westinghouse R &D Center, Pittsburgh, Pennsylvania, USA, and then at the Eaton Corporation’s Vacuum Interrupter Factory, Horseheads, New York, USA.

Users Review

From reader reviews:

Stewart Ramirez:

People live in this new day time of lifestyle always try and and must have the spare time or they will get wide range of stress from both daily life and work. So , whenever we ask do people have spare time, we will say absolutely sure. People is human not just a robot. Then we request again, what kind of activity do you possess when the spare time coming to anyone of course your answer will probably unlimited right. Then ever try this one, reading books. It can be your alternative inside spending your spare time, the actual book you have read is usually Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering).

Bernetta Smith:

Are you kind of active person, only have 10 or even 15 minute in your morning to upgrading your mind skill or thinking skill possibly analytical thinking? Then you are receiving problem with the book compared to can satisfy your limited time to read it because this all time you only find book that need more time to be study. Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) can be your answer since it can be read by an individual who have those short time problems.

James Martin:

This Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) is completely new way for you who has intense curiosity to look for some information because it relief your hunger associated with. Getting deeper you in it getting knowledge more you know or perhaps you who still having little digest in reading this Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) can be the light food to suit your needs because the information inside this kind of book is easy to get by anyone. These books develop itself in the form that is certainly reachable by anyone, yeah I mean in the e-book web form. People who think that in book form make them feel drowsy even dizzy this e-book is the answer. So you cannot find any in reading a publication especially this one. You can find what you are looking for. It should be here for you actually. So , don't miss it! Just read this e-book style for your better life and knowledge.

Mary Wines:

As a scholar exactly feel bored in order to reading. If their teacher asked them to go to the library or to make summary for some e-book, they are complained. Just tiny students that has reading's heart and soul or real their hobby. They just do what the instructor want, like asked to go to the library. They go to generally there but nothing reading significantly. Any students feel that reading is not important, boring and can't see colorful photos on there. Yeah, it is for being complicated. Book is very important to suit your needs. As we know that on this time, many ways to get whatever we wish. Likewise word says, many ways to reach Chinese's country. So , this Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) can make you really feel more interested to read.

Download and Read Online Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti #VXUSGO4TWZ0

Read Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti for online ebook

Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti books to read online.

Online Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti ebook PDF download

Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti Doc

Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti Mobipocket

Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti EPub

VXUSGO4TWZ0: Electrical Contacts: Principles and Applications, Second Edition (Electrical and Computer Engineering) From imusti