

SECOND EDITION

THE VACUUM INTERRUPTER

THEORY, DESIGN, AND APPLICATION

PAUL G. SLADE



CRC Press
Taylor & Francis Group

The Vacuum Interrupter Theory Design And Application

JL Elias

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The Vacuum Interrupter Theory Design And Application:

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contact materials a summary of their advantages and Electrical Contacts Paul G. Slade, 2017-12-19 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 **The Theory, Design and Construction of Induction Coils** Henri Armagnat, 1908 **XVth International Symposium on Discharges and Electrical Insulation in Vacuum** Dieter König, 1992 XVI International Symposium on Discharges and Electrical Insulation in Vacuum ,1994 **ISDEIV** ,1998 Conference Publication ,1986 **Control Theory Meets the Real World of Application** ,1978 *EPRI Guide* ,1983 **Proceedings** ,2002 **Electrical Engineering** ,1961 Vols for 1931 46 include the preprints of the Transactions of the American Institute of Electrical Engineers ISSN 0096 3860 **The Electrical Journal** ,1899 *Transactions of the American Institute of Electrical Engineers* American Institute of Electrical Engineers, 1926 List of members in v 7 15 17 19 20 *IEEE Transmission and Distribution Conference and Exposition* ,1994 The Electrician ,1899 *IEEE Transactions on Dielectrics and Electrical Insulation* ,2002 **Technical Papers** ,1967 **The Electrical Review** ,1978

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