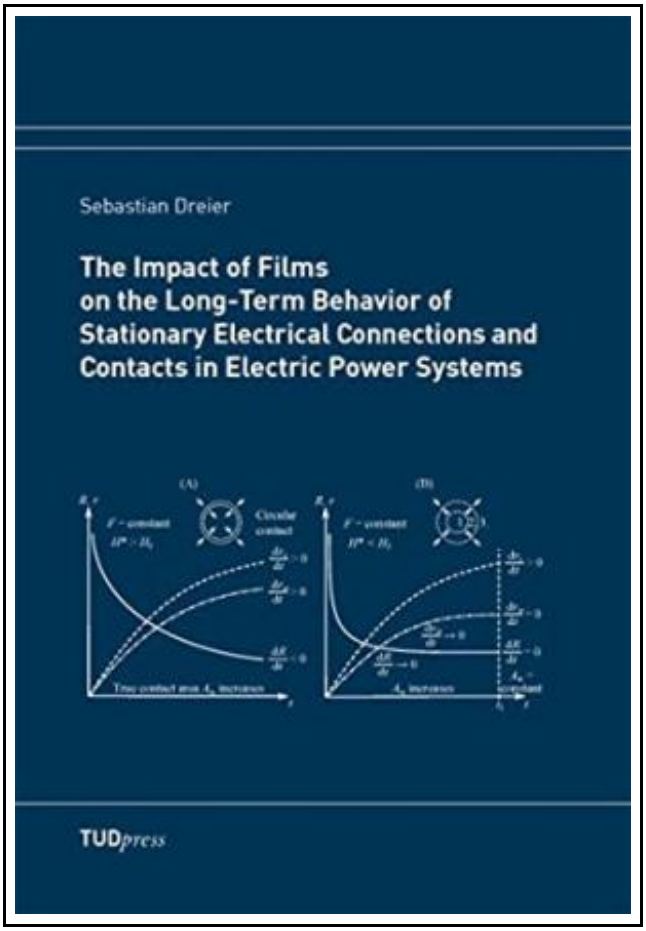
The Impact of Films on the Long-Term Behavior of Stationary Electrical Connections and Contacts in Electric Power Systems



Filesize: 2.63 MB

Reviews

This publication is definitely not simple to begin on studying but really exciting to read. It is actually rally fascinating throgh reading time. Your life span will be enhance when you complete looking at this publication.

(Laurence Littel)

THE IMPACT OF FILMS ON THE LONG-TERM BEHAVIOR OF STATIONARY ELECTRICAL CONNECTIONS AND CONTACTS IN ELECTRIC POWER SYSTEMS

Tudpress Verlag Der Wissenschaften Gmbh Feb 2016, 2016. Taschenbuch. Book Condition: Neu. 210x148x10 mm. This item is printed on demand - Print on Demand Neuware - Stationary electrical connections and contacts, such as power connections, are commonly applied in electric power systems used for generation, transmission and distribution of electric energy. Several different degradation mechanisms can increase the contact resistance and might therefore reduce the power connection's lifetime. The degradation by film development is often considered as a reason for contact failure. In this research work, the impact of film development produced by chemical reactions, such as oxidation, on the long-term behavior of stationary electrical connections and contacts was studied with crossed rods. Typical material systems for electric power systems were considered in this study: Cu-ETP bare, silver-, nickel- or tin-coated, Al99.5 and AlMgSi0.5. The initial contact resistance and the plastic deformed area of the considered material systems was measured in experimental tests. The film's impact was further determined through comparative experimental studies in air and inert gas. During the experimental tests on perpendicularly crossed rods, other degradation mechanisms were suppressed. The film's impact within the formation phase was studied in more detail. Moreover, the dependency on different environments was tested. Supplementary studies were performed at low forces as well as analytical assessment of the impact of radial and axial film growth on circular contact points. As result, a general description of the interactions between film development, time, material and temperature at circular contact points is presented in this book. An additional chapter considers the long-term behavior of power connections operated in areas with harsh environmental conditions. For over two and a half years, long-term field tests investigating bolted busbar joints were conducted in desert and tropical rainforest environments. 172 pp. Englisch.

Other PDFs

Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG,...

Save Book »

Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers...

Save Book »

New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond

Paperback. Book Condition: New. Not Signed; This is Book 2 of CGP's SAT Buster 10-Minute Tests for KS2 Grammar, Punctuation & Spelling - it's a brilliant way to introduce English SATS preparation in bite-sized chunks....

Save Book »

Genuine] action harvest - Kunshan Yufeng Experimental School educational experiment documentary(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Pages: 377 Publisher: Fujian Education Press title: action with harvest...

Save Book »

The Well-Trained Mind: A Guide to Classical Education at Home (Hardback)

WW Norton Co, United States, 2016. Hardback. Book Condition: New. 4th Revised edition. 244 x 165 mm. Language: English . Brand New Book. The Well-Trained Mind will instruct you, step by step, on how to...

Save Book »