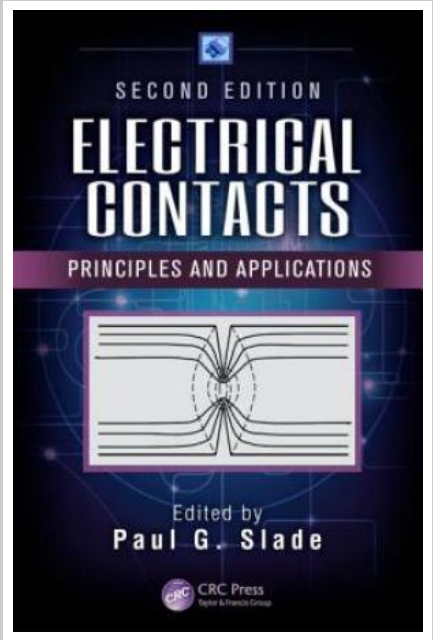


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By Paul G. Slade

Taylor & Francis Inc, 2014. Hardcover. Book Condition: New. 2nd Revised edition. 17.8 x 25.4 cm. "Preface to the Second Edition Since the publication of the first edition of this book there have been some very costly system failures, which could have been prevented with a better knowledge of electrical contact phenomena. I will give two examples. The first is an electrical connector that supplied power to the "Main Fuel Shut-off Valve" in the F-16 fighter airplane. This connector used tin plated pins plugged into a gold plated socket. As will be briefly discussed in Chapters 3 and 4, the failure of this combination from fretting corrosion in the aircraft's vibration environment caused the fuel to stop flowing to the jet engines. Several F-16 crashes are attributed to this connector failure with a subsequent cost of over $100 M. In hindsight it is probable that this pin socket combination used extensively in the earlier F-111 airplane resulted in it cancellation. Failure of the connectors most probably resulted in this plane's performance changing from a "terrain following" aircraft to a "terrain impacting" one. The second example occurred in the Large Hadron Collider (LHC), which began its initial testing in September 2008....

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