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Fatigue Life Prediction of Solder Joints in Electronic Packages with Ansys®

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Fatigue Life Prediction of Solder Joints in Electronic Packages with ANSYS® describes the method in great detail starting from the theoretical basis. The reader is supplied with an add-on software package to ANSYS® that is designed for solder joint fatigue reliability analysis of electronic packages. Specific steps of the analysis method are discussed through examples without leaving any room for confusion. The add-on package along with the examples make it possible for an engineer with a working knowledge of ANSYS® to perform solder joint reliability analysis. Fatigue Life Prediction of Solder Joints in Electronic Packages with ANSYS® allows the engineers to conduct fatigue reliability analysis of solder joints in electronic packages. | Preface. List of Commands. List of Tables. List of Figures. 1: Introduction. 1.1. Numerical Modeling with Finite Element Analysis. 1.2. Constitutive Relations. 1.3. Failure Prediction. 1.4. References. 2: Thermomechanical Fatigue Life Prediction Analysis. 2.1. Approach. 2.2. Analysis Steps. 2.3. Case Study: BGA-Type Package. 2.4. References. 3: Mechanical Bending Fatigue Life Prediction Analysis. 3.1. Approach. 3.2. Analysis Steps. 3.3. Case Study: BGA-Type Package. 3.4. References. 4: Macro Reference Library. 4.1. Overview. 4.2. Preprocessor. 4.3. Solution. 4.4. Postprocessing. 4.5. References. Appendix A: Installation...



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