

Ephraim Suhir

List of Publications by Year in descending order

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Version: 2024-02-01

191
papers

3,927
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201385

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168136

53
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194
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194
docs citations

194
times ranked

1234
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Predictive modeling sheds useful light on burn-in testing (BIT): Brief review and recent extension. <i>Microelectronics Reliability</i> , 2022, 128, 114371. | 0.9 | 4 |
| 2 | Quantifying surgeon's performance: probabilistic approach. <i>British Journal of Surgery</i> , 2022, , . | 0.1 | 2 |
| 3 | Avoiding collision in automated driving situation. <i>Theoretical Issues in Ergonomics Science</i> , 2021, 22, 251-260. | 1.0 | 7 |
| 4 | Astronaut's performance vs. his/hers human-capacity-factor and state-of-health: Application of double-exponential-probability-distribution function. <i>Acta Astronautica</i> , 2021, 178, 250-256. | 1.7 | 10 |
| 5 | Some Major Human Issues in Aerospace Engineering: Review and Extension. <i>Lecture Notes in Networks and Systems</i> , 2021, , 169-177. | 0.5 | 3 |
| 6 | Physical Properties and Mechanical Behavior of Carbon Nano-tubes (CNTs) and Carbon Nano-fibers (CNFs) as Thermal Interface Materials (TIMs) for High-Power Integrated Circuit (IC) Packages: Review and Extension. , 2021, , 137-156. | | 0 |
| 7 | When Instrumentation and Human Performance Contribute Jointly to the Outcome of a Human-System-Integration (HSI) Mission: Brief Review. <i>Lecture Notes in Networks and Systems</i> , 2021, , 409-413. | 0.5 | 2 |
| 8 | Figure-of-Merit for a Long-Term Survivorship of a Species Determined from the Short-Term Mortality Rate of Its Individual Organisms. <i>Biophysical Reviews and Letters</i> , 2021, 16, 111-123. | 0.9 | 2 |
| 9 | Using yield to predict long-term reliability of integrated circuits: Application of Boltzmann-Arrhenius-Zhurkov model. <i>Solid-State Electronics</i> , 2020, 164, 107746. | 0.8 | 9 |
| 10 | Survivability of species in different habitats: Application of multi-parametric Boltzmann-Arrhenius-Zhurkov equation. <i>Acta Astronautica</i> , 2020, 175, 249-253. | 1.7 | 4 |
| 11 | Head-on railway obstruction: a probabilistic model. <i>Theoretical Issues in Ergonomics Science</i> , 2020, , 1-7. | 1.0 | 5 |
| 12 | Towards Probabilistic Analysis of Human-System Integration in Automated Driving. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 9-14. | 0.5 | 8 |
| 13 | Mechanical Behavior of Optical Fibers and Interconnects: Application of Analytical Modelling. , 2020, , 1528-1532. | | 0 |
| 14 | Application of Analytical Modeling in the Design for Reliability of Electronic Packages and Systems. , 2020, , 110-119. | | 0 |
| 15 | Design for Reliability of Electronic Materials and Systems. , 2020, , 610-620. | | 0 |
| 16 | Probabilistic reliability-physics models in aerospace human-in-the-loop (HITL) problems. , 2019, , 499-516. | | 4 |
| 17 | Degraded situation awareness risk assessment in the aerospace domain. , 2019, , . | | 3 |
| 18 | Physical Design for Reliability of Solder Joint Interconnections for Application in Aerospace Electronics. , 2019, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Failure-Oriented-Accelerated-Testing and Its Role in Making a Device into a Product. , 2019, , . | | 1 |
| 20 | To Burn-In, or Not to Burn-In: That's the Question. Aerospace, 2019, 6, 29. | 1.1 | 11 |
| 21 | Analytical thermal stress modeling in electronics and photonics engineering: Application of the concept of interfacial compliance. Journal of Thermal Stresses, 2019, 42, 29-48. | 1.1 | 9 |
| 22 | Short note - assessment of the required human capacity factor using flight simulator as an appropriate accelerated test vehicle. International Journal of Human Factors Modelling and Simulation, 2019, 7, 71. | 0.1 | 12 |
| 23 | Short note - adequate trust, human-capacity-factor, probability-distribution-function of human non-failure and its entropy. International Journal of Human Factors Modelling and Simulation, 2019, 7, 75. | 0.1 | 12 |
| 24 | Electron Device Subjected to Temperature Cycling: Predicted Time-to-Failure. Journal of Electronic Materials, 2019, 48, 778-779. | 1.0 | 6 |
| 25 | Short note - assessment of the required human capacity factor using flight simulator as an appropriate accelerated test vehicle. International Journal of Human Factors Modelling and Simulation, 2019, 7, 71. | 0.1 | 3 |
| 26 | Short note - adequate trust, human-capacity-factor, probability-distribution-function of human non-failure and its entropy. International Journal of Human Factors Modelling and Simulation, 2019, 7, 75. | 0.1 | 3 |
| 27 | Design for Reliability of Electronic Materials and Systems. , 2019, , 1-10. | | 2 |
| 28 | Mechanical Behavior of Optical Fibers and Interconnects: Application of Analytical Modelling. , 2019, , 1-5. | | 0 |
| 29 | Application of Analytical Modeling in the Design for Reliability of Electronic Packages and Systems. , 2019, , 1-10. | | 1 |
| 30 | Solder Joint Interconnections in Automotive Electronics: Design-for-Reliability and Accelerated Testing. International Symposium on Microelectronics, 2019, 2019, 000063-000077. | 0.3 | 1 |
| 31 | Aerospace electronics reliability prediction: application of two advanced probabilistic techniques. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 824-839. | 0.9 | 1 |
| 32 | Analytical thermal stress model for a typical flip-chip (FC) package design. Journal of Materials Science: Materials in Electronics, 2018, 29, 2676-2688. | 1.1 | 5 |
| 33 | What could and should be done differently: failure-oriented-accelerated-testing (FOAT) and its role in making an aerospace electronics device into a product. Journal of Materials Science: Materials in Electronics, 2018, 29, 2939-2948. | 1.1 | 12 |
| 34 | Quantifying the roles of human error and his/her state-of-health: use of the double-exponential-probability-distribution-function. International Journal of Human Factors Modelling and Simulation, 2018, 6, 140. | 0.1 | 3 |
| 35 | Flip-Chip (FC) and Fine-Pitch-Ball-Grid-Array (FPBGA) Underfills for Application in Aerospace Electronics - Brief Review. Aerospace, 2018, 5, 74. | 1.1 | 9 |
| 36 | Aerospace Mission Outcome: Predictive Modeling. Aerospace, 2018, 5, 56. | 1.1 | 4 |

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| 37 | Quantifying the roles of human error and his/her state-of-health: use of the double-exponential-probability-distribution-function. International Journal of Human Factors Modelling and Simulation, 2018, 6, 140. | 0.1 | 2 |
| 38 | Dynamic response of electronic materials to impact loading: review. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2017, 97, 699-717. | 0.9 | 2 |
| 39 | How Many Peripheral Solder Joints in a Surface Mounted Design Experience Inelastic Strains?. Journal of Electronic Materials, 2017, 46, 1747-1753. | 1.0 | 3 |
| 40 | Assessed interfacial strength and elastic moduli of the bonding material from shear-off test data. Journal of Materials Science: Materials in Electronics, 2017, 28, 6794-6799. | 1.1 | 2 |
| 41 | Static fatigue lifetime of optical fibers assessed using Boltzmannâ€“Arrheniusâ€“Zhurkov (BAZ) model. Journal of Materials Science: Materials in Electronics, 2017, 28, 11689-11694. | 1.1 | 9 |
| 42 | Probabilistic Palmgrenâ€“Miner rule, with application to solder materials experiencing elastic deformations. Journal of Materials Science: Materials in Electronics, 2017, 28, 2680-2685. | 1.1 | 13 |
| 43 | Solder material experiencing low temperature inelastic stress and random vibration loading: predicted remaining useful lifetime. Journal of Materials Science: Materials in Electronics, 2017, 28, 3585-3597. | 1.1 | 12 |
| 44 | Flip-chip assembly: is the bi-material model acceptable?. Journal of Materials Science: Materials in Electronics, 2017, 28, 15775-15781. | 1.1 | 2 |
| 45 | Reliability physics behind the QFN state of stress. Journal of Materials Science: Materials in Electronics, 2017, 28, 2160-2171. | 1.1 | 1 |
| 46 | Human-in-the-loop: application of the double exponential probability distribution function enables one to quantify the role of the human factor. International Journal of Human Factors Modelling and Simulation, 2017, 5, 354. | 0.1 | 9 |
| 47 | Could thermal stresses in a BGA/CGA-system be evaluated from a model intended for a homogeneously bonded assembly?. Journal of Materials Science: Materials in Electronics, 2016, 27, 570-579. | 1.1 | 20 |
| 48 | A novel approach for evaluation of material interfaces in electronics. , 2016, , . | | 2 |
| 49 | Semiconductor film grown on a circular substrate: predictive modeling of lattice-misfit stresses. Journal of Materials Science: Materials in Electronics, 2016, 27, 9356-9362. | 1.1 | 4 |
| 50 | Column-grid-array (CGA) versus ball-grid-array (BGA): board-level drop test and the expected dynamic stress in the solder material. Journal of Materials Science: Materials in Electronics, 2016, 27, 11572-11582. | 1.1 | 8 |
| 51 | Predicted thermal stresses in a TSV design. , 2016, , . | | 0 |
| 52 | Predicted stresses in a ball-grid-array (BGA)/column-grid-array (CGA) assembly with an epoxy adhesive at its ends. Journal of Materials Science: Materials in Electronics, 2016, 27, 4399-4409. | 1.1 | 8 |
| 53 | Expected stress relief in a bi-material inhomogeneously bonded assembly with a low-modulus-and/or-low-fabrication-temperature bonding material at the ends. Journal of Materials Science: Materials in Electronics, 2016, 27, 5563-5574. | 1.1 | 8 |
| 54 | Could dynamic strength of a bonding material in an electronic device be assessed from static shear-off test data?. Journal of Materials Science: Materials in Electronics, 2016, 27, 6697-6702. | 1.1 | 3 |

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| 55 | Power core (PC) embedding a plurality of IC devices and sandwiched between two dissimilar insulated metal substrates (IMS [™]): predicted thermal stresses. Journal of Materials Science: Materials in Electronics, 2016, 27, 7646-7656. | 1.1 | 1 |
| 56 | Board level drop test: exact solution to the problem of the nonlinear dynamic response of a PCB to the drop impact. Journal of Materials Science: Materials in Electronics, 2016, 27, 9423-9430. | 1.1 | 3 |
| 57 | Bi-material assembly with a low-modulus-and/or-low-fabrication-temperature bonding material at its ends: optimized stress relief. Journal of Materials Science: Materials in Electronics, 2016, 27, 4816-4825. | 1.1 | 8 |
| 58 | Bi-material assembly subjected to thermal stress: propensity to delamination assessed using interfacial compliance model. Journal of Materials Science: Materials in Electronics, 2016, 27, 6779-6785. | 1.1 | 7 |
| 59 | Aerospace electronics-and-photonics (AEP) reliability has to be quantified to be assured. , 2016, , . | | 1 |
| 60 | Predicted stresses in ball-grid-array (BGA) and column-grid-array (CGA) interconnections in a mirror-like package design. Journal of Materials Science: Materials in Electronics, 2016, 27, 2430-2441. | 1.1 | 8 |
| 61 | Analysis of a short beam with application to solder joints: could larger stand-off heights relieve stress?. EPJ Applied Physics, 2015, 71, 31301. | 0.3 | 17 |
| 62 | Analytical bathtub curve with application to electron device reliability. Journal of Materials Science: Materials in Electronics, 2015, 26, 6633-6638. | 1.1 | 10 |
| 63 | Bow-Free Tri-Component Mechanically Pre-Stressed Failure-Oriented-Accelerated-Test (FOAT) Specimen. , 2015, , . | | 1 |
| 64 | Scanning acoustic microscopy and shear wave imaging mode performances for failure detection in high-density microassembling technologies. , 2015, , . | | 3 |
| 65 | Human-in-the-loop: probabilistic predictive modelling, its role, attributes, challenges and applications. Theoretical Issues in Ergonomics Science, 2015, 16, 99-123. | 1.0 | 10 |
| 66 | Probabilistic modelling of the concept of anticipation in aviation. Theoretical Issues in Ergonomics Science, 2015, 16, 69-85. | 1.0 | 9 |
| 67 | Predicted stresses in a ball-grid-array (BGA)/column-grid-array (CGA) assembly with a low modulus solder at its ends. Journal of Materials Science: Materials in Electronics, 2015, 26, 9680-9688. | 1.1 | 12 |
| 68 | Could application of column-grid-array (CGA) technology result in inelastic-strain-free state-of-stress in solder material?. Journal of Materials Science: Materials in Electronics, 2015, 26, 10062-10067. | 1.1 | 14 |
| 69 | Aging-related failure rate obtained from bathtub curve data. , 2015, , . | | 3 |
| 70 | Probabilistic design for reliability in electronics and photonics: Role, significance, attributes, challenges. , 2015, , . | | 6 |
| 71 | Analytical (mathematical) predictive modeling in fiber optics structural analysis (FOSA): review and extension. Proceedings of SPIE, 2015, , . | 0.8 | 5 |
| 72 | Predicted Thermal- and Lattice-Mismatch Stresses. , 2015, , 983-1005. | | 6 |

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| 73 | Quantified Reliability of Aerospace Optoelectronics. SAE International Journal of Aerospace, 2014, 7, 65-73. | 4.0 | 5 |
| 74 | Human-in-the-Loop (HITL): Probabilistic Predictive Modeling (PPM) of an Aerospace Mission/Situation Outcome. Aerospace, 2014, 1, 101-136. | 1.1 | 11 |
| 75 | Towards adequate qualification testing of electronic products: Review and extension. , 2014, , . | | 1 |
| 76 | Statistics-related and reliability-physics-related failure processes in electronics devices and products. Modern Physics Letters B, 2014, 28, 1450105. | 1.0 | 12 |
| 77 | Analysis of a Bow-Free Prestressed Test Specimen. Journal of Applied Mechanics, Transactions ASME, 2014, 81, . | 1.1 | 10 |
| 78 | Thermomechanical stress analysis of copper/silicon interface in through silicon vias using FEM simulations and experimental analysis. , 2014, , . | | 2 |
| 79 | Reliability physics and probabilistic design for reliability (PDfR): Role, attributes, challenges. , 2014, , . | | 5 |
| 80 | Three-step concept (TSC) in modeling microelectronics reliability (MR): Boltzmannâ€™Arrheniusâ€™Zhurkov (BAZ) probabilistic physics-of-failure equation sandwiched between two statistical models. Microelectronics Reliability, 2014, 54, 2594-2603. | 0.9 | 15 |
| 81 | Manned missions to Mars: Minimizing risks of failure. Acta Astronautica, 2014, 93, 148-161. | 1.7 | 29 |
| 82 | HALT, FOAT and their role in making a viable device into a reliable product. , 2014, , . | | 15 |
| 83 | Aerospace optoelectronics reliability: application of multi-parametric BAZ model. , 2014, , . | | 8 |
| 84 | Thermal stress in through-silicon-vias: Theory-of-elasticity approach. Microelectronics Reliability, 2014, 54, 972-977. | 0.9 | 17 |
| 85 | Minimizing thermally induced interfacial shearing stress in a thermoelectric module with low fractional area coverage. Microelectronics Journal, 2014, 45, 547-553. | 1.1 | 24 |
| 86 | Fiber optics engineering: Physical design for reliability. Facta Universitatis - Series Electronics and Energetics, 2014, 27, 153-182. | 0.6 | 6 |
| 87 | Could electronics reliability be predicted, quantified and assured?. Microelectronics Reliability, 2013, 53, 925-936. | 0.9 | 40 |
| 88 | Design-for-reliability (DfR) of aerospace electronics: Attributes and challenges. , 2013, , . | | 11 |
| 89 | Assuring Electronics Reliability: What Could and Should Be Done Differently. , 2013, , . | | 9 |
| 90 | Predicted reliability of aerospace electronics: Application of two advanced probabilistic concepts. , 2013, , . | | 21 |

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| 91 | Saint-Venant's principle and the minimum length of a dual-coated optical fiber specimen in reliability (proof) testing. <i>Microelectronics Reliability</i> , 2013, 53, 1506-1509. | 0.9 | 7 |
| 92 | BOLTZMANN-ARRHENIUS-ZHURKOV (BAZ) MODEL IN PHYSICS-OF-MATERIALS PROBLEMS. <i>Modern Physics Letters B</i> , 2013, 27, 1330009. | 1.0 | 36 |
| 93 | Thermal Stress Failures in Electronics and Photonics: Physics, Modeling, Prevention. <i>Journal of Thermal Stresses</i> , 2013, 36, 537-563. | 1.1 | 26 |
| 94 | Predicted Thermal Stresses in a Trimaterial Assembly With Application to Silicon-Based Photovoltaic Module. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, . | 1.1 | 11 |
| 95 | Predicted Thermal Stress in a Multileg Thermoelectric Module (TEM) Design. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, . | 1.1 | 16 |
| 96 | Predicted Size of an Inelastic Zone in a Ball-Grid-Array Assembly. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, . | 1.1 | 12 |
| 97 | Predicted size of the inelastic zone in a ball-grid-array (BGA) assembly. , 2013, , . | | 2 |
| 98 | STRUCTURAL DYNAMICS OF ELECTRONIC SYSTEMS. <i>Modern Physics Letters B</i> , 2013, 27, 1330004. | 1.0 | 6 |
| 99 | 'Miracle-on-the-Hudson': quantitative aftermath. <i>International Journal of Human Factors Modelling and Simulation</i> , 2013, 4, 35. | 0.1 | 19 |
| 100 | Predicted Response of the Die-Carrier Assembly in Flexible Electronics to the Combined Action of Tension and Bending Applied to the Carrier. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, . | 1.1 | 6 |
| 101 | Assembly Bonded at the Ends: Could Thinner and Longer Legs Result in a Lower Thermal Stress in a Thermoelectric Module Design?. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, . | 1.1 | 38 |
| 102 | Elastic Stability of a Cantilever Beam (Rod) Supported by an Elastic Foundation, With Application to Nano-Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, . | 1.1 | 9 |
| 103 | Human in the Loop: Predicted Likelihood of Vehicular Mission Success and Safety. <i>Journal of Aircraft</i> , 2012, 49, 29-36. | 1.7 | 28 |
| 104 | Dynamic response of electronic systems to shocks and vibrations: Application of analytical (mathematical) modeling. <i>EPJ Web of Conferences</i> , 2012, 26, 05002. | 0.1 | 1 |
| 105 | Probabilistic design-for-reliability concept and novel approach to qualification testing of aerospace electronic products. , 2012, , . | | 19 |
| 106 | Improved performances of polymer-based dielectric by using inorganic/organic core-shell nanoparticles. <i>Applied Physics Letters</i> , 2012, 101, . | 1.5 | 14 |
| 107 | When adequate and predictable reliability is imperative. <i>Microelectronics Reliability</i> , 2012, 52, 2342-2346. | 0.9 | 12 |
| 108 | Analysis of a bi-material strip. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2012, 92, 320-328. | 0.9 | 0 |

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| 109 | Bending of a bi-material cantilever beam, with consideration of the role of the interfacial shearing stress. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2012, 92, 573-582. | 0.9 | 1 |
| 110 | Stresses in bi-material GaN assemblies. Journal of Applied Physics, 2011, 110, . | 1.1 | 11 |
| 111 | Analysis of an elongated stretched strip, with application to a strain-gage electrical sensor design. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2011, 91, 330-338. | 0.9 | 3 |
| 112 | Analysis of a pre-stressed bi-material accelerated-life-test (ALT) specimen. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2011, 91, 371-385. | 0.9 | 18 |
| 113 | Predicted stresses in die-carrier assemblies in "stretchable" electronics: is there an incentive for using a compliant bond?. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2011, 91, 57-67. | 0.9 | 5 |
| 114 | Two Men in a Cockpit: Casualty Likelihood if One Pilot Becomes Incapacitated. Journal of Aircraft, 2011, 48, 1309-1314. | 1.7 | 15 |
| 115 | Fiber optic interconnects: physical design for reliability. , 2010, , . | | 1 |
| 116 | Interfacial Stresses in a Lap Shear Joint (LSJ): The "Transverse Groove Effect" (TGE). Journal of Solid Mechanics and Materials Engineering, 2010, 4, 1116-1130. | 0.5 | 5 |
| 117 | Duffing Oscillator: Could an Impact Load of Finite Duration be Substituted with an Instantaneous Impulse?. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 1381-1397. | 0.5 | 5 |
| 118 | Probabilistic modelling of the role of the human factor in the Helicopter-Landing-Ship (HLS) situation. International Journal of Human Factors Modelling and Simulation, 2010, 1, 313. | 0.1 | 5 |
| 119 | Helicopter Landing Ship: Undercarriage Strength and the Role of the Human Factor. Journal of Offshore Mechanics and Arctic Engineering, 2010, 132, . | 0.6 | 15 |
| 120 | Physical Properties and Mechanical Behavior of Carbon Nano-tubes (CNTs) and Carbon Nano-fibers (CNFs) as Thermal Interface Materials (TIMs) for High-Power Integrated Circuit (IC) Packages: Review and Extension. , 2010, , 315-347. | | 1 |
| 121 | Predictive Modeling of the Dynamic Response of Electronic Systems to Shocks and Vibrations. Applied Mechanics Reviews, 2010, 63, . | 4.5 | 8 |
| 122 | Analytical (“mathematical”) modeling of the dynamic response of a printed circuit board (PCB) to an impact load. , 2010, , . | | 2 |
| 123 | Predictive Analytical Thermal Stress Modeling in Electronics and Photonics. Applied Mechanics Reviews, 2009, 62, . | 4.5 | 51 |
| 124 | Nonlinear dynamic response of a "flexible-and-heavy" printed circuit board (PCB) to an impact load applied to its support contour. Journal Physics D: Applied Physics, 2009, 42, 045506. | 1.3 | 19 |
| 125 | Thermal stress in a bi-material assembly with a "piecewise-continuous" bonding layer: theorem of three axial forces. Journal Physics D: Applied Physics, 2009, 42, 045507. | 1.3 | 17 |
| 126 | On a Paradoxical Situation Related to Bonded Joints: Could Stiffer Mid-Portions of a Compliant Attachment Result in Lower Thermal Stress?. Journal of Solid Mechanics and Materials Engineering, 2009, 3, 990-997. | 0.5 | 15 |

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| 127 | Compliance properties study of carbon nanofibres (CNFs) array as thermal interface material. Journal Physics D: Applied Physics, 2008, 41, 155105. | 1.3 | 6 |
| 128 | Interfacial stresses in a bi-material assembly with a compliant bonding layer. Journal Physics D: Applied Physics, 2008, 41, 115504. | 1.3 | 10 |
| 129 | On a paradoxical situation related to lap shear joints: could transverse grooves in the adherends reduce the interfacial stresses?. Journal Physics D: Applied Physics, 2008, 41, 115505. | 1.3 | 12 |
| 130 | Disc-like copper vias fabricated in a silicon wafer: Design for reliability. , 2008, , . | | 6 |
| 131 | Elastic stability of a dual coated optical fiber with a stripped off coating at its end. Journal of Applied Physics, 2007, 102, . | 1.1 | 5 |
| 132 | Elastic stability of a dual-coated optical fiber of finite length. Journal of Applied Physics, 2007, 102, 043107. | 1.1 | 8 |
| 133 | Reliability improvement through nanoparticle material-based fiber structures. Optical Fiber Technology, 2007, 13, 27-31. | 1.4 | 6 |
| 134 | Response of a heavy electronic component to harmonic excitations applied to its external electric leads. Elektrotechnik Und Informationstechnik, 2007, 124, 309-314. | 0.7 | 5 |
| 135 | Thermal properties of carbon nanotube array used for integrated circuit cooling. Journal of Applied Physics, 2006, 100, 074302. | 1.1 | 95 |
| 136 | Interfacial thermal stresses in a bi-material assembly with a low-yield-stress bonding layer. Modelling and Simulation in Materials Science and Engineering, 2006, 14, 1421-1432. | 0.8 | 31 |
| 137 | Effect of rapid thermal annealing (RTA) on thermal properties of carbon nanofibre (CNF) arrays. Journal Physics D: Applied Physics, 2006, 39, 4878-4885. | 1.3 | 14 |
| 138 | Bonding strength of a carbon nanofiber array to its substrate. Journal of Materials Research, 2006, 21, 2922-2926. | 1.2 | 13 |
| 139 | Effective Young's modulus of carbon nanofiber array. Journal of Materials Research, 2006, 21, 2948-2954. | 1.2 | 12 |
| 140 | Predicted thermal stresses in a bow-free adhesively bonded assembly for photonic packaging applications. Elektrotechnik Und Informationstechnik, 2003, 120, 195-199. | 0.7 | 8 |
| 141 | Bimaterial assembly with a low modulus bonding layer at the ends. Journal of Applied Physics, 2003, 93, 3657-3661. | 1.1 | 24 |
| 142 | Accelerated Life Testing (ALT) in Microelectronics and Photonics: Its Role, Attributes, Challenges, Pitfalls, and Interaction With Qualification Tests1. Journal of Electronic Packaging, Transactions of the ASME, 2002, 124, 281-291. | 1.2 | 49 |
| 143 | <title>Accelerated life testing (ALT) in microelectronics and photonics: its role, attributes, challenges, pitfalls, and interaction with qualification tests</title>. , 2002, 4703, 162. | | 9 |
| 144 | Thermal stress in a polymer-coated optical glass fiber with a low-modulus coating at the ends. Journal of Materials Research, 2001, 16, 2996-3004. | 1.2 | 44 |

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| 145 | Predicted thermal stresses in a bimaterial assembly adhesively bonded at the ends. Journal of Applied Physics, 2001, 89, 120-129. | 1.1 | 50 |
| 146 | Analysis of interfacial thermal stresses in a trimaterial assembly. Journal of Applied Physics, 2001, 89, 3685-3694. | 1.1 | 72 |
| 147 | Adhesively bonded assemblies with identical nondeformable adherends and a piecewise continuous adhesive layer: predicted thermal stresses in the adhesive. International Journal of Solids and Structures, 2000, 37, 2229-2252. | 1.3 | 43 |
| 148 | Microelectronics and photonics – the future. Microelectronics Journal, 2000, 31, 839-851. | 1.1 | 43 |
| 149 | Predicted Fundamental Vibration Frequency of a Heavy Electronic Component Mounted on a Printed Circuit Board. Journal of Electronic Packaging, Transactions of the ASME, 2000, 122, 3-5. | 1.2 | 19 |
| 150 | Predicted thermally induced stresses in, and the bow of, a circular substrate/thin-film structure. Journal of Applied Physics, 2000, 88, 2363-2370. | 1.1 | 38 |
| 151 | Optical fiber interconnect with the ends offset and axial loading: What could be done to reduce the tensile stress in the fiber?. Journal of Applied Physics, 2000, 88, 3865. | 1.1 | 21 |
| 152 | Adhesively bonded assemblies with identical nondeformable adherends: modeling of the induced thermal stresses in the adhesive layer. Composite Interfaces, 1998, 6, 135-154. | 1.3 | 17 |
| 153 | Adhesively Bonded Assemblies with Identical Nondeformable Adherends and Nonhomogeneous Adhesive Layer: Predicted Thermal Stresses in the Adhesive. Journal of Reinforced Plastics and Composites, 1998, 17, 1588-1606. | 1.6 | 17 |
| 154 | Bending Stress in an Optical Fiber Interconnect Experiencing Significant Ends Off-Set. Materials Research Society Symposia Proceedings, 1998, 531, 209. | 0.1 | 16 |
| 155 | The Future of Microelectronics and Photonics and the Role of Mechanics and Materials. Journal of Electronic Packaging, Transactions of the ASME, 1998, 120, 1-11. | 1.2 | 28 |
| 156 | Probabilistic approach to evaluate improvements in the reliability of a chip-substrate (chip-card) assembly. IEEE Transactions on Components and Packaging Technologies, 1997, 20, 60-63. | 0.7 | 4 |
| 157 | Predicted Thermal Mismatch Stresses in a Cylindrical Bi-material Assembly Adhesively Bonded at Its Ends. Journal of Applied Mechanics, Transactions ASME, 1997, 64, 15-22. | 1.1 | 28 |
| 158 | Applied Probability for Engineers and Scientists. Journal of Electronic Packaging, Transactions of the ASME, 1997, 119, 213-214. | 1.2 | 93 |
| 159 | Failure criterion for moisture-sensitive plastic packages of integrated circuit (IC) devices: Application of von Mises's equations with consideration of thermoelastic strains. International Journal of Solids and Structures, 1997, 34, 2991-3019. | 1.3 | 24 |
| 160 | How Compliant Should a Die-Attachment be to Protect the Chip From Substrate Bowing?. Journal of Electronic Packaging, Transactions of the ASME, 1995, 117, 88-92. | 1.2 | 8 |
| 161 | Thermally induced stresses in an optical glass fiber soldered into a ferrule. Journal of Lightwave Technology, 1994, 12, 1766-1770. | 2.7 | 51 |
| 162 | Approximate evaluation of the interfacial shearing stress in cylindrical double lap shear joints with application to dual-coated optical fibers. International Journal of Solids and Structures, 1994, 31, 3261-3283. | 1.3 | 21 |

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