

## **FORWARD**

In many engineering applications adhesively bonded and bolted connections serve similar purposes. The load ranges for applicability, however, depart at the high end of the load spectrum. Ease of reversibility also provides an advantage with the bolted connections. Due to these advantages bolts and nuts are still a preferred method of joining, especially in power transmitting components, in the automotive industry. Sealing performance, and durability are important issues in such joints and they should be an important part of the design process. Papers included in this symposium address the related topics of washer properties, interface configuration in multiple bolt connections, and thermal stresses, especially for the case of bolted joints made of dissimilar materials.

The performance of bolted connections can be increased with the use of elastomeric gaskets as well as with the simultaneous use of adhesive bonding. In fact, rubber components, including seals, gaskets, o-rings are important components not only for the automotive industry but for a wide range of the whole manufacturing arena. This symposium includes papers on Finite Element Analysis (FEA) based characterization of such materials including incorporation of aging and service conditions to obtain material coefficients, in such analysis, and the use of compression relaxation testing in the compound development of such components. Results presented also reveal that the strength of shrink fitted joints of hollow shafts subjected to torsion is higher when adhesive bonding is incorporated along with the shrink fitting procedure.

In order to achieve efficient bonding, especially to metal substrates, the surface of the substrate must be prepared to remove weak boundary layers, improve wettability by the resin, and increase the interlocking effect by the adhesive. Different surface preparation procedures such as chemical etching, sandblasting, laser ablation applied on different substrates result in geometrically varying surface topographies. Not only the average mathematical properties of these asperities, such as the arithmetic mean roughness, mean peak-to-valley height etc., but also the shape of the asperities are expected to affect the quality of adhesion, and these issues are addressed in this symposium. Among the other novel findings reported in the arena of adhesives and adhesion are the following. It is determined that for single lap adhesive joints it may not be necessary to have the adhesive cover the whole overlap length for efficient adhesion. If the adhesive covers over half of the area from the overlap edges towards the center of the overlap, the joint strength is not different than that for a joint with full adhesive coverage. For butt joints of hollow shafts, the tensile strength increases with decreasing taper angle at the joint (i.e., departure from butt configuration, angle defined w.r.t. the loading axis). It is also determined that increasing the adhesive thickness does not result in increased damping capacity in adhesive joints.

An emerging topic in the area of lightweight composite materials is the design and Application of highly tunable composite springs. Composites present a very exciting possibility in replacing metals in helical and other geometry springs due to their promise of durability, lightweight, and the ability to closely control the mechanical and geometrical behavior. This symposium included two papers on the free vibration behavior of such springs.

The Reliability, Stress Analysis, and Failure Prevention (RSAFP) Committee of the Design Engineering Division participated in 1998 International Mechanical Engineering Congress and Exposition with a focus on adhesive joining, bolted connections, rubber components, composite springs, and fifteen papers presented in this program are contained in this volume. The sessions of the

RSAFP program were entitled:

Design, Durability, and Adhesion of Rubber Components, and Springs; Chair: Mr. A. Pannikottu;  
Vice-Chair: Dr. E. Sancaktar  
Adhesive Joints; Chair: Dr. E. Sancaktar; Vice-Chair: Dr. T. Sawa  
Bolted and Welded Joints; Chair: Dr. E. Sancaktar; Vice-Chair: Dr. T. Sawa.

As the RASFP program organizer, I would like to extend my thanks to the session chairs, as well as all authors and reviewers of the RASFP program.

Erol Sancaktar

# Reliability Stress Analysis And Failure Prevention Aspects Of Composite And Active Materials

**Christian G. Meyer**



## **Reliability Stress Analysis And Failure Prevention Aspects Of Composite And Active Materials:**

**Reliability, Stress Analysis, and Failure Prevention Aspects of Composite and Active Materials** Erol Sancaktar, J. S. Lee, 1994      **Adhesive Joints: Formation, Characteristics and Testing** Kash L. Mittal, 2023-01-27 This volume documents the proceedings of the Second International Symposium on Adhesive Joints Formation Characteristics and Testing held in Newark NJ May 22 24 2000 Since the first symposium held in 1982 there had been tremendous research activity dealing with many aspects of adhesive joints This volume contains a total of 21 papers which were all properly peer reviewed revised and edited before inclusion Therefore this book is not merely a collection of unreviewed manuscripts but rather represents information which has passed peer scrutiny Furthermore the authors were asked to update their manuscripts so the information contained in this book should be current and fresh The book is divided into three parts 1 General Papers 2 Evaluation Analysis and Testing and 3 Durability Aspects The topics covered include molecular brush concepts in enhancing strength of adhesive joints factors affecting performance of adhesive joints substrate preparation and modification interfacial interphasial aspects determination of locus of failure analysis and evaluation of adhesive joints using various techniques testing of adhesive joints stress analysis application of fracture mechanics durability aspects accelerated environmental degradation of adhesive joints solvent uptake and adhesives with special characteristics This volume represents a commentary on the current R D activity in this arena and it should be of great value and interest to anyone interested in adhesive bonding adhesive joints Furthermore this volume contains a number of excellent review overview articles which should be of particular value      *Applied mechanics reviews*, 1948      **Long-Term Durability of Polymeric Matrix Composites** Kishore V. Pochiraju, Gyaneshwar P. Tandon, Gregory A. Schoeppner, 2011-09-25 Long Term Durability of Polymeric Matrix Composites presents a comprehensive knowledge set of matrix fiber and interphase behavior under long term aging conditions theoretical modeling and experimental methods This book covers long term constituent behavior predictive methodologies experimental validation and design practice Readers will also find a discussion of various applications including aging air craft structures aging civil infrastructure in addition to engines and high temperature applications      Polymer Surface Modification: Relevance to Adhesion Kash L. Mittal, 2004-08-26 This book documents the proceedings of the Fourth International Symposium on Polymer Surface Modification Relevance to Adhesion held under the auspices of MST Conferences LLC in Orlando FL June 9 11 2003 Polymers are used for a variety of purposes in a host of technological applications and even a cursory look at the literature will evince that currently there is tremendous interest and R 2 Other Miscellaneous Surface Modification Techniques and 3 General Papers The topics covered include low pressure plasma surface modification of a variety of polymers using various gases atmospheric pressure plasma treatment improvement of stain release properties of fabrics modification of electrostatic properties of polymers photon based processes for surface modification of fibers excimer UV light treatment excimer laser surface treatment low energy ion

treatment photo grafting and photo curing metallization of treated polymers chemical wet functionalization of polymers  
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properties of ceramic layers on polymers and modification of interphase layer and relevance to adhesion This volume and its  
predecessors containing plentiful information should serve as a comprehensive source of latest R D activity in the highly  
technologically important arena of polymer surface modification Anyone interested centrally or peripherally in knowing or  
learning about the various ways to modify polymer surfaces should find this book of immense value

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