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BIBLIOGRAPHY ON STRUCTURAL ADHESIVES

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Abramov 1981

Abramov, V.V, Venalyev, V.D., Akutin, M.D., Tchalaya, N.M., Melnichenko, V.I. and Shelest, A.M., "Correlation of Morphology, Mechanical Properties and Conditions of Obtaining Modificated High Impact of Polystyrene," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, Agust 1981.

Allara 1979

Allara, D.L., "Adsorption Studies of Polymers on Metals by Fourier Transform Reflection Infrared Spectroscopy," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Amari 1979

Amati, T. and Watanable, K., "Relaxation Modulus of Printing Ink," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Anderson 1982

Anderson, G.P., DeVries, I.L. and Sharon, S., Evaluation of Adhesive Test Methods, "UTEC ME 82-083.

Anderson 1984

Anderson, G.P., "Advances in the Mechanics of Adhesive Joints," IITCME 84-039, A Short Report to Accompany an Oral Presentation at the National Materials Advisory Board Workshop on the Reliability of Adhesive Bonds Under Severe Environments, Washington, D.C., May 3-5, 1984.

Anon 1982

Anon, "A Bystematic Approach to Plastics Material Selection and Design," Modern Plastics Encyclopedia, Vol. 59 No. 10A, McGraw-Hill, Inc., New York, N.Y. October 1982, pp. 429-437.

Anon 1976

Anon, "Engineering and Design Guide to Plastics," Plastics Engineering Handbook of the Society of the Plastics Industry, Inc., Van Nostrand Reinhold Co., Fourth Edition, New York, N.Y., 1976, pp. 53-55.

Ard 1981

Ard, K., Kolman, H.J. and Beatty, C.L., "Dynamic Mechanical Properties of SMC as a Function of Deformation," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

ASCE

"Structural Plastics Design Manual", ASCE Manuals and Reports on Engineering Practice No. 63, Prepared by Task Committee on Design of the Structural Plastics Research Council of the Technical Council on Research of the American Society of Civil Engineering.

Askins 1980	Askins, R.D and McKiernan, J.C., "Adhesive Bonding for Shelters," Interim Technical Report No. AFWAL-TR-80-4183, University of Dayton Research Institute, October 1980.
ASTM 1978a	ASTM D 1780-72 (1978), "Standard Recommended Practice for Conducting Creep Tests of Metal to Metal Adhesives."
ASTM 1978b	ASTM D 2095-72 (1978), "Standard Test Method for Tensile Strength of Adhesives by Means of Bar and Rod Specimens."
ASTM 1976	ASTM D 3528-76 (1976), "Standard Test Method For Strength Properties of Double Lap Shear Adhesive Joints by Tension Loading."
ASTM 1978c	ASTM D64B-72 (1978) "Standard Test Method for Deflection Temperature of Plastics Under Flexural Load."
ASTM 1978d	ASTM D897-78 (1978), "Standard Test Method for Tensile Properties of Adhesive bonds."
ASTM 1978e	ASTM D 1002-72 (1978), "Standard Test Method for Strength Properties of Adhesives in Shear by Tension Loading (Metal to Metal).
ASTM 1981	ASTM D429-81 (1981), "Standard Test Methods for, Rubber Property-Adhesion to Rigid Substrates".
ASTM 1982	ASTM E24.04.09 (1982), "Round Robin Stress Analysis of a Cracked-Lap-Shear Specimen".
Bascom 1977	Bascom, W.D., Oroshnik, J. and Timmons, C.O., "Fracture Testing of Coatings," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol 37, No. 1, March 1977.
Batdorf	Batdorf, S.B. and Ghaffarian, R., "Stress Disributions in Damaged Composites", KGO1, University of California, Los Angelos.
Bates 1979	Bates, R., "Adhesive Tack," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.
Bathias 1983	Bathias, C. and Laksimi, A., "Delamiation Threshold and Loading Effecting Fiber Glass Epoxy Composite," University of Compiegne, France 1983.

Belvi 1979

Belyi, V.A., Smurugov, V.A. and Sviridyonok, A.I., "A Role of Molecular Forces in Adhesive Interaction of Polymers," Preprints of American Chemical Society/ Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol.40, April 1979.

Bilow 1979

Bilow, N., "Acetylene Substituted Polyimides as Potential High Temperature Coatings," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Breitling 1977

Breitling, S., Williams, M.L. and Colwell, R.,
"Adhesive Fracture of Bonded Plates or Membrane
Strips," Preprints of 173rd Meeting, American Chemical
Society, Division of Organic Coatings and Plastics
Chemistry, Vol. 37, No. 1, March 1977.

Briggs 1983

Briggs, D., "Plenary Lecture: New Applications of ESCA," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Briscoe 1977

Briscoe, B.J. and Tabor, D., "Shear Properties of Thin Polymeric Films," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plasti'cs Chemistry, Vol. 37, No. 1, March 1977.

Brussat 1978

Brussat, T.R., Chili, S.T. and Mostovoy, S., "Fracture Mechanics for Structural Adhesive Bonds, Phase II, Final Technical Report," AFML-TR-77-16311. Prepared for Air Force Materials Laboratory/Code Fy-1457 Air Force Systems Command Wright-Patterson AFB, Ohio, August 1978.

Bucknall 1977

Bucknall, C.B., Reid, J.C. and Stevens, W.W.,
"Fracture Mechanics Studies of High-Impact
Polystyrene," Preprints of 173rd Meeting, American
Chemical Society, Division of Organic Coatings and
Plastics Chemistry, Vol. 37, No. 1, March 1977.

Burkhardt

Burkhardt, P., Hertig, P., Aeschlimann, H.U., "Behavior of Concrete-Steel Composite Beams Connected With Expoxy Adhesives", Material x et Constructions, Vol. 8, No. 46.

Bushe

Bushe, M.G., "Mechanical Properties and Tests _ A to Z", TD 647, Reprinted from Materials Engineering, Tinius Olsen Testing Machine Co., Inc., Willow Grove, Pa.

Cagle 1973

Cagle, C.V., "Handbook of Adhesive Testing," McGraw-Hill, Inc., New York, N.Y. 1973, pp. 31-14 to 31-19.

Calder 1979

Calder, A.J.J., "Exposure Tests on Externally Reinforced Concrete Beams - First Two Years", TRRL Supplementary Report 529, 1979.

Carpenter 1981

Carpenter, R.L., "Rheological Properties of Adhesion. Preliminary Interfacial Effects Using Semi-Rigid Adhesive Systems," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Chacko 1981

Chacko, V.P., Farris, R.J. and Karasz, F.E.,
"Morphology and Mechanical Properties of Filled
Polyethylene," Preprints of 182nd National Meeting,
Division of Organic Coatings and Plastics Chemistry,
American Chemical Society, Vol. 45, August 1981.

Chan 1983

Chan, C.L. and Gillham, J.K., "Rubber Modified Epoxies: Effect of Cure on Morphology," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Chang 1976

Chang, D.J., Muki, R., and Westmann, R.A., "Double Cantilever Beam Models in Adhesive Mechanics," International Journal of Solids Structures, Vol. 12, 1976, pp. 13-26.

Charles 1981

Charles, W.J. and Palmer, S.J., "Applications of Structural Adhesives in Production." Adhesion 5, 1981, pp. 119-131.

Chatterjee 1982

Chatterjee, S.N., Pipes, R.B., and Blake, R.A., Fr., "Criticality of Disbonds in Laminate Composites," Submitted for Presentation at the Symposium on Effects of Defects in Composite Materials, San Francisco, CA. December, 1982.

Chen 1981a	Chen, C.C., Morrow, D.R. and Sauer, J.A., "Effects of Silicon Oil on Tensile and Fatigue Behavior of Polystyrene," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.
Chen 1981b	Chen, C.M., "Fast Curing Copolymer Resins of Phenol, Formaldehyde, and Chemicals from Forest and Agricultural Residues," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.
Chesson 1966	Chesson, E., Jr., "Exploratory Tests of Structural Steel Joints Assembled with Bolts and Adhesives," A Status Report Prepared for the Research Council on Riveted and Bolted Structural Joints, Dept. of Civil Engineering, Univ. of Ill., Urbana, Ill., March 1966.
Christensen 1979	Christensen, R.M., "Evaluation of Stiffness Properties for Different Morphologies in Polymer Blends and Composites," Preprints of American Chemical Society/ Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.
Chudnovsky 1981	Chudnovsky, A. and Most, A., "A Theory of Crack Layer Propagation in Polymers Under Cyclic Loading," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.
Chung 1975	Chung, H.W., "Epoxy-Repaired Reinforced Concrete Beams", ACI Journal, May 1975.
Chung 1977	Chung, H. W., Lui, L.M., "Epoxy-Repaired Concrete Joints", ACI Journal, June 1977.
Chung 1978	Chung, H.W., Lui, L.M., "Epoxy-Repaired Concrete Joints Under Dynamic Loads", ACI Journal, July 1978.

Chemistry, Vol. 40, April 1979.

Chung 1981

Cianciaruio 1979

Chung, H.W., "Epoxy Repair of Bond in Reinforced

Concrete Members", ACI Journal, January-February 1981.

Liquid Natural Gas Containment," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics

Cianciaruio, T., "Epoxies and Polyurethanes Used in

Clair 1983

Clair, A.K. St., Clair, T.L. St. and Ezzell, S.A., "Elastomer-Modified Polyimide Adhesives," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Clark 1963

Clark, A.B.J. and Sanford, R.J., "A Comparison of Static and Dynamic Properties of Photoelastic Experiments is Presented in This Technical Report", Experimental Mechanics, June 1983.

Clements 1979

Clements, L. L. and Sherby, D.D., "Strain Rate/ Temperature Behavior of High Density Polyethylene in Compression," Preprints of American Chemical Society/ Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Comyn 1979

Comyn, J., Brewis, D.M., Shalash, R.J.A., and Tegg, F.L., "The Effect of Water on Epoxide Resins and Joints," Adhesion 3, 1979.

Congdon 1979

Congdon, W.I., Bair, H.E. and Khanna, S.K., "An Analysis of the Thermal Degradation Under Processing Conditions of ABS/PVC Blends," Preprints of American Chemical Society//Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Cook

Cook, J.P., Diab, J., Morsi, A., "The Strength of FRP Reinforced Concrete Beams", Abstract.

Coover 1983

Coover, H.W., "Cyanoacrylate Adhesives-A Day of Serendipity, A Decade of Hard Work," Preprints of 185th National Meetings, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Cotts 1983

Coots, P.M., "Solution Characterization of Polyamic Acids and Polyimides," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Crabtree 1979

Crabtree, D.J., "Quantitative Analysis of Resin Matrix Advancement by GPC, DSC, and Ultraviolet Spectroscopy," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979. Crowley 1979

Crowley, J.L. and Jonath, A.D., "Dielectric Relaxation Gradients in an Adhesive Bond," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Curran 1984

Curran, D.R., Seaman, L., Dein, J., "Constitutive Laws for Failing Material," Mechanics of Engineering Materials, Edited by C.S. Desai and R. H. Gallagher, 1984 John Wiley and Sons, Ldt.

Cusens 1980

Cusens, A.R. and Smith, D.W., "A Study of Epoxy Resin Adhesive Joints in Shear," The Structural Engineer, Journal of the Institution of Structural Engineers, Vol. 58A, No. 1, London, U.K., January 1980, pp. 13-18.

Datta 1979

Datta, P. and Kaganowicz, G., "Physico-Chemical Aspects of Thin Polymeric Film Adhesion to Metals," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Dattaguru 1982

Dattaguru, B., Everett, R.A., Jr., Whitcomb, J.D. and Johnson, W.S., "Geometrically Non Linear Analysis of Adhesively Bonded Joints," NASA Technical Memorandum 84562, Langley Research Center, Hampton, Virginia, September, 1982.

Deanin 1977

Deanin, R.D. and Geoffroy, R.R., "Major Thermoplastic Polyblends: Compatibility and Practical Properties," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

DeLollis 1977

DeLollis, N.J., "Durability of Structural Adhesive Bonds: A Review," Adhesives Age, September 1977, pp. 43-44.

DeNicola 1981

DeNicola, A.J. and Bell, J.P. Jr., "Synthesis and Testing of B-Diketone Coupling Agents for Improved Durability of Epoxy Adhesion to Steel," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

DeVries 1976

DeVries, K.L., "Fracture Mechanics of Polymers," Coatings and Plastics Preprints of Papers Presented at the 181 Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry Volume 36, No. 1, April 1976. Dias 1983

Disa, S. and Wightman, J.P., "The Application of Thermodynamic and Spectroscopic Techniques to the Polyimide/Ti 6-4 Systems," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Dickinson 1983

Dickinson, J.T., "Plenary Lecture: Fracto-Emission Accompanying Adhesive Failure," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Dow 1980

Dow, N.F. and Derby, E., "Survey of Metal-Matrix Technology for Fabrication of Bridging Structures," AMMRC-TRBO-53, Prepared for Army Materials and Mechanics Research Center, Watertown, Mass., November, 1980.

Duke 1969

Duke, A.J., "Adhesive Bonding of Iron and Steel," Journal of the Iron and Steel Institute, May 1969.

Dwight 1979

Dwight, D.W., "Locus-of-Failure Analysis in Adhesive Bonding Research," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Eddy 1980

Eddy, S.R., Lucarelli, M.A., Heminiak, T.E., Jones, W.B., and Picklesmer, L.G., "Evaluating New Polymers as Structural Adhesives," Adhesives Age, February 1980.

Eirich 1977

Eirich, F.R., "Some Principles of Mechanical Toughening," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Eldridge 1979

Eldridge, R., "Conversion of Graft Polyacrylamide to Amines via the Hofmann and Mannich Reactions," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Ellis 1983

Ellis, T.S. and Karasz, F.E., "The Interaction of Epoxy Resins with Water," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Ezzell 1983

Ezzel, S.A. and Taylor, L.T., "Polyimide Films Doped with Tim Additives," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Farhad, F., Muke, R., and Westmann, R.A., "The Role of Farhad 1977 the Adhesive Layer in a Double Cantilever Joint," International Journal of Solids Structures, Vol. 13, 1977, pp. 561-570. Farrar, N.R. and Ashtree, K Farrar 1979 .H.B., "Self-Stress Enhanced Water Migration in Composites," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979. Farris, R.J., "On Non-Linear Homogeneous Constitutive Farris 1981 Equations and Their Application To Composites," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981. Quarterly Progress Report No. 7 (January 1 to March Fatigue 1978a 31, 1978), "Fatigue Behavior of Adhesively Bonded Joints," General Dynamics, Fort Worth Division Technical Report FZM 6735, April 1978. Quarterly Progress Report No. 11 (July 1 to Sept. 30, Fatigue 1978b 1978), "Fatigue Behavior of Adhesively Bonded Joints," General Dynamics, Fort Worth Division Technical Report FZM-6801, October 1978. Ouarterly Progress Report No. 11, (January 1 to March Fatigue 1979a 31, 1979), "Fatigue Behavior of Adhesively Bonded Joints," General Dynamics, Fort Worth Technical Division Report FZM-6838, April, 1979. Ouarterly Progress Report No. 12 (April 1 to June 30, Fatigue 1979b 1979), "Fatigue Behavior of Adhesively Bonded Joints," General Dynamics, Fort Worth Division Technical Report FZM-6853, July 1979.

Fatigue 1979c Quarterly Progress Report No. 13 (July 1 to September 30, 1979), "Fatigue Behavior of Adhesively Bonded Joints," General Dynamics, Fort Worth Division Technical Report FZM-6872, October 1979.

Fernando, P.L., "Evaluation of Molded Articles Using an Instrumental Impact Machine", Northern Petro Chemical Co., Technical Center, Morris, Illinois.

Fleming, C.J., "Polymers As Structural Adhesives with Particular Reference to the Strengthening of Existing Structures".

Fernando

Fleming

Flory 1950	Flory, P.J., "Statistical Mechanics of Swelling of Network Structures," The Journal of Chemical Physics, Vol. 18, No. 1, January 1950.
Fourney 1979	Fourney, M.E., Muki, R., Stone, S.F. and Westmann, R.A., "Role of Bond Thickness on Adhesive Failure," Polymer Engineering and Science, Vol. 19, No. 2, 1979, pp. 114-117.
Fujii 1979a	Fujii, T., Fukuda, T., Iida, S. and Sano, M., "Acoustic Fatigue Strength of FRP Panels," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.
Fujii 1979b	Fujii, T., "The Effect of Nonlinear Behaviour of Fiber Matrix Interface on the Mechanical Properties of Fibrous Composites," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.
Fukuda 1979	Fukuda, H. and Kawata, K., "On the Viscoelasticity of Adhesives at Peeling," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.
Gary 1984	Gary, Amar, Ishai, Ori, "Hygrothermal Influence on Delamination Behavior of Graphite/Epoxy Laminates", NASA-TM-85935, NASA Ames Research Center, Moffett Field, California.
Gaul 1978a	Gaul, R.W., "Standard Specification for Bending Hardened Concrete, Steel, Wood, Brick, and Other Materials to Hardened Concrete with a Multi- Component Epoxy Adhesive", ACI Journal, September 1978.
Gaul 1978b	Gaul, R.W., "Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive", ACI Journal, September 1978.
Gaul 1978c	Gaul, R.W., "Standard Specification for Producing a Skid-Resistant Surface on Concrete by the Use of a Multi-Component Epoxy System", ACI Journal, September 1978.
Gaul 1978d	Gaul, R.W., "Standard Specification for Repairing Concrete with Epoxy Mortars", ACI Journal,

September 1978

Gaur 1981

Gaur, U. and Wunderlich, B., "ATHAS Polymer Heat Capacity Data Bank," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Geil 1969a

Geil, G.W. and Feinburg, I.J., "Microplasticity I-Measurement of Small Microstrains at Ambient Temperature," National Bureau of Standards Report 9996, National Bureau of Standards, Washington, D.C., February 1969.

Geil 1969b

Geil, G.W. and Feinberg, I.J., "Microplasticity II, Microstain Behavior of Normalized 4340 Steel and Anneslro Invar," National Bureau of Standards Report 9997, National Bureau of Standards, Washington, D.C., March 6, 1969.

Germann 1962

Germann, Dipl-Ing., Bauakademic, Deutsche, "Friction-type joints in shear bonded-bolted.

Gillham 1977

Gillham, J.K. and McPherson, C.A., "Characterization of Thermosetting Epoxy Using a Torsional Pendulum: Effect of Environment," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Gillham 1977

Gillham, J.K., Glandt, C.A. and McPherson, C.A.,
"Characterization of Thermosetting Epoxy Systems Using
a Torsional Pendulum," Preprints of 173rd Meeting,
American Chemical Society, Division of Organic
Coatings and Plastics Chemistry, Vol. 37, No. 1, March
1977.

Gillham 1983

Gillham, J.K. and Nae, H.,
"Time-Temperature-Transformation (TTT) Diagrams of
High to Epoxy Resins: Competition Between Cure and
THERMAL DEGRADATION," PREPRINTS OF 185TH NATIONAL
Meeting, Division of Organic Coatings and Plastics
Chemistry, American Chemical Society, Vol. 48, March
1983.

Gillham 1979

Gillham, J.H., "Torsional Pendulum Analysis of the Influence of Molecular Structure on the Cure and Transitions of Polyphthalocyanines," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Graff 1983

Graff, G., "The Glued-Together Airplane," High Technology, September 1983, pp. 67-69.

Griffith 1977

Griffith, J.R. and O'Rear, J.G., "New Fluoro-Anhydride Curing Agents for Heavily Flourinated Epoxy Resins," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Harashima 1979

Harashima, I., Hirabayashi, S. and Hirasawa, T.,
"Adhesive Strength of Dental Fluid Adrylic Resin to
Cross-linked PMMA," Preprints of American Chemical
Society/Chemical Society of Japan Chemical Congress,
Division of Organic Coatings and Plastics Chemistry,
Vol. 40, April 1979.

Hartshorn 1979

Hartshorn, H.J., "Time-Lapse Infrared Spectroscopic Investigation of Alkyd and Linseed Oil Cure Mechanisms," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Hart-Smith 1978

Hart-Smith, L.J., "Adhesive-Bonded Joints for Composites Phenomenological Considerations," Douglas Paper No. 6707, Paper Presented to Technology Conferences Associates, Conference on Advanced Composites Technology, El Segundo, California, March 1978.

Hart-Smith 1974

Hart-Smith, L.J., "Advances in the Analysis and Design of Adhesive-Bonded Joints in Composite Aerospace Structures," Douglas Aircraft Co., Presented April 24, 1974, Douglas Paper 6224.

Hart-Smith 1980

Hart-Smith, L.J., "Further Developments in the Design and Analysis of Adhesive-Bonded Structural Joints," Douglas Paper No. 6922, Presented to the ASTM Symposium on Joining Composite Materials, Minneapolis, Minnesota, April 1980.

Helminiak 1983

Helminiak, T.E. and Jones, W.B., Jr., "Influence of Molecular Weight of Fracture Behavior of Polyphenylquinoxaline Thermosets," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Helminiak 1979

Helminiak, T.E., "The Air Force Ordered Polymers Research Program - An Overview," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979. Hendricks 1983

Hendricks, C.L., Hill, AS.G. and Peters, P.D., "Evaluation of High Temperature Structural Adhesives for Extended Service,"Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Herakovich, C.T.

Herakovich, C.T. and Milkovich, S.M., "Relative Influence of Voids on the Tensile Strength and Toughness of Angle-Ply Laminates", The NASA-Virginia Tech. Composites Program, Virginia Polytechnic Institute and State University, Blacksburg, VA.

Hergenrother 1979

Hergenrother, P.M. and Johnston, N.J., "Status of High Temperature Laminating Resins and Adhesives," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Highsmith

Highsmith, A.L., Stinchcomb, W.W. and Reifsnider, K.L.
"The Effect of Fatigue-Induced Defects on the
Residual Response of Composite Laminates", Virginia
Polytechnic Institute and State University.

Hill 1979

Hill, L.W. and Prince, D.E., "Waterborne Polymers for Aircraft Coatings," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Hirabayashi 1979

Hirabayashi, S., Harashima, I. and Hirasawa, T., "Adhesive Strength of Dental Self-Curing Acrylic Resin to Cross-linked PMMA," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Huang 1979

Huang, S.J., Byrne, C. and Pavliska, J., "The Effect of Photolysis on the Biodegradation of Polyamides," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Hunston 1979

Hunston, D.L., Bascom, W.D., Wells, E.E., Fahey, J.D. and Bitner, J.L., "Mechanical Characterization of Structural Adhesives," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Hunston 1977

Hunston, D.L., Griffith, J.R. and Bowers, R.C., "Surface Properties of Fluoro-Epoxies," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Igarashi 1979

Igarashi, T., "On Fracture Criteria in Peeling," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Intmeth 1980a

Quarterly Progress Report No. 2, (December 1, 1979 to February 29, 1981), "Integrated Methodology for Adhesive Bonded Joint Life Predictions," General Dynamics, Fort Worth Division Technical Report FZM-6892, March 1980.

Intmeth 1980b

Quarterly Progress Report No. 4, (1 June to 31 August 1980), "Integrated Methodology for Adhesive Bonded Joint Life Predictions," General Dynamics, Fort Worth Division Technical Report No. FZM-6931, September 1980.

Intmeth 1980c

Quarterly Progress Report No. 5, (1 September to 30 November 1980), "Integrated Methodology for Adhesive Bonded Joint Life Predictions," General Dynamics, Fort Worth Division Technical Report No. FZM-6952, December 1980.

Intmeth 1981a

Quarterly Progress Report No. 6, (1 December 1980 to 28 February 1981), "Integrated Methodology for Adhesive Bonded Joint Life Predictions," General Dynamics, Fort Worth Division Technical Report No. FZM-6961.

Quarterly Progress Report No. 7, (1 March 1981 to 31 Intmeth 1981b May 1981), "Integrated Methodology for Adhesive Bonded Joint Life Predictions," General Dynamics, Fort Worth Division, Technical Report No. FAM-6975, June 1981. Quarterly Progress Report No. 8, (June 1, 1981 to Intmeth 1981c August 31, 1981), "Integrated Methodology for Adhesive Bonded Joint Life Predictions," General Dynamics, Fort Worth DivisionTechnical Report FZM-6990, September 1981. Quarterly Progress Report No. 3. Appendix A, "Creep Intmeth 1980d Compliance Master Curves," General Dynamics, Fort Worth Division Technical Report No. F2M-June 1980. Quarterly Progress Report No. 9, (1 September 1981 to Intmeth 1981d 30 November 1981), "Integrated Methodology for Adhesive Bonded Joint Life Predictions, "General Dynamics, Fort Worth Division Technical Report No. FZM-7010, December 1981. Irwin, G.R., "Fracture Mechanics Applied to Adhesive Irwin 1965 Systems" U.S. Naval Research Laboratory. Irwin, G.R., "Force Concepts in Relation to Fracture Irwin Behaviors of Composite Materials" Israelachvili, J., Tandon, R.K. and White, L.R., "The Israelachvili 1979 Direct Measurement of Forces Between PEO adsorbed on Mica Surfaces in Aqueous Electrolyte," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979. Jen, M.H.R. and Weitsmann, Y., "Stresses in Adhesive Jen 1981 Joints Due to Moisture Sorption," Advances in Aerospace Structure and Materials," S.S. Wang and W.J. Renton, Editors. ASME Publication AD-1, November 1981. Johannesson, T. and Blikstad, M., "A Fractographic Johannesson 1983 Study of the Delamination Process," Linkoping Institute of Technology, Linkoping University, Linkoping, Sweden 1983. Johnson 1978 Johnson, W.S., "Optimizing the Matrix in Order to Prevent Failure in Fiber-Reinforced Resin Matrix Composites", M.E. 211, Spring 1978.

Johnson 1983

Johnson, W.S. and Mall, S., "A Fracture Mechanics

Center, Hampton, Virginia, September 1983.

Approach for Designing Adhesively Bonded Joints," NASA Technical Memorandum 85694, NASA, Langley Research Johnson 1982

Johnson, W.S., "Improved Damage Tolerance of Titanium by Adhesive Lamination," NASA Technical Memorandum 84525 Langley Research Center, Hampton, Virginia, July 1982.

Johnson 1984

Johnson, W.S., "Bonded Joint Strength: Static Versus Fatigue," International Congress on Experimental Mechanics, SESA, Society of Experimental Stress Analysis, Montreal, June 10-15, 1984.

Jones 1982

Jones, W.B., Jr. and Romanko, J., "Fatigue Behavior of Adhesively Bonded Joints," Air Force Wright Aeronautical Laboratories, 1982.

Jordan 1981

Jordan, E.F., Artymyshyn, B., Hannigan, M.V., Carroll, R.J. and Feairheller, S.H., "Polymer-Leather Composites v. Preparative Methods, Kinetics, Morphology, and Mechanical Properties of Selected Acrylate Polymer-Leather Composite Materials," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1982.

Kabayashi 1979

Kabayashi, T. and Nate, K., "Adhesive Characteristics of Ultraviolet Curable Resins," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Kaelble 1979

Kaelble, D.H., "Surface Energetics and Structural Reliability of Adhesive Bonded Metal Structures," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Kagiya 1979

Kagiya, T., Wada, T., Yokoyama, N. and Ono, H., "Acceleration of Radiation-Induced Cross-linking of Polyethylene by Chlorofluorethylene," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Kahn 1979

Kahn, L.F., Will, K.M., Sanders, P.H., "Strengthening of Existing Bridges Using Epoxy Injection", GDOT Research Project No. 7702, Final Report, January 1979.

Kakiuchi 1979

Kakiuchi, H. and Takei, S., "New Epoxy Resins from Aykylene-bis-(p-hydroxybenzoate)," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Kamagata 1979

Kamagata, K., "Curing of Epoxide Resin with 2-Methyl Imidazole and Adduct of 2-Methyl-Imidazole and Phenyl Glycidyl Ether," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Kawata 1979

Kawata, K., Fukuda, H., Takeda, N. and Hondo, A., "Analysis of Adhesive Fracture Testing Methods for Aerospace Use," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Keenan 1979

Keenan, J.D., Seferis, J.C. and Quinlivan, J.T., "The Effects of Mositure and Stoichiometry on the Dynamic Mechanical Properties of Carbon Reinforced Epoxy Composites," Preprints of American Chemical Society/ Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Kinzig 1977

Kinzig, B.J., Fort, T. Jr., "Interfacial Behavior of Stereoregular Polymethylmethacrylates," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Kleiner 1979

Kleiner, L.W., Karasz, F.E. and MacKnight, W.J., "Compatibility and Mechanical Properties of Blends Based Upon Plyalphamethylstyrene," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Klempner 1979

Klempner, D., Yoon, H.K., Frisch, K.C. and Frisch, H.L., "Polyurethane-Adrylic Copolymer-Pseudo-Interpenetrating Polymer Networks," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Knauss 1980

Knauss, W.G., Kenner, V.H., "On The Hygrothermomechanical Characterization of Polyvinyl Acetate" Journal of Applied Physics 51(10), October 1980.

Knauss 1981

Knauss, W.G., Enri, I.J., "Non-Linear Viscoelasticity Based on Free Volume Consideration" Computers and Structures, Vol. 13, pp. 123-128.

Kobayashi 1979

Kobayashi, A. and Ohtani, N., "Dynamic Fracture in Aerospace High Polymers," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Kolman 1981

Kolman, H.J., Ard, K. and Beatty, C.L., "Variation of Dynamic Mechanical Properties of Polycarbonate as a Result of Deformation," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Koneja

Koneja, S.K. and Newaz, G.M., "Influence of Defects on Fracture Toughness and Impact Characteristics of a Hybrid Composite System: Polyester/Glass Fibers and Sand", Owens-Corning Fiberglass Corporation, Technical Center, Granville, Ohio.

Kong 1983

King, E.S.W., "Volume Recovery in Aerospace Epoxy Resins and its Effects on Time-Dependent Properties of Carbon-Fiber-Reinforced Epoxy Composities," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Krieger 1979

Krieger, R.B., Jr., "Fatigue Testing of Structural Adhesives," In Structural Adhesives and Bonding, Technology Conferences Associates, El Segundo, Calif., March 1979.

Kriegh 1976

Kriegh, J.D., "Arizona Slant Shear Test: A Method to Determine Epoxy Bond Strength", ACI Journal, July 1976.

Kriz

Kriz, R.D., "Influence of Ply Cracks on Fracture Strength of Graphite/Epoxy Laminates at 76k*", Fracture and Deformation Division, National Bureau of Standards, Boulder, Colorado.

Kuo 1984

Kuo, A.Y., Wang, S.S., "A Dynamic Hybrid Finite Element Analysis of Delamination in Composites" T & A.M., Report No. 466, University of Illinois, April 1984.

Kusy 1981

Ksuy, R.P. and Simmons, W.F., "Fracture Toughness of Poly (Methyl Methacrylate) Blends," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Labana 1976	Labana, S.S., "Chemistry and Properties of Crosslinked Polymers," Coatings and Plastics Preprints of Papers Presented at the 171 Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 36, No. 1, April 1976.
Lang 1981	Lang, R.W., Manson, J.A., Hertzberg, R.W., "Effects of Short Glass Fibers and Particulate Fillers on Fatigue Crack Propagation in Polymides," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.
Lang 1983	Lang, R.W., Manson, J.A. and Hertzberg, R.W., "Fatigue Crack Propagation in Short-Glass-Fiber-Reinforced Styrene-Acrylonitrile Copolymer," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.
Lark 1984	Lark, R. J., Mays, G.C., "Epoxy Adhesive Formulation: Its Influence on Civil Engineering Performance", Paper presented at 22nd Annual Conference on Adhesion and Adhesive, City University, England, April 1984.
Law, G.E.	Law, G.E., "The Fracture Behavior of (+-25/90n), Graphite Epoxy Composite Laminates," General Dynamics, Fort Worth Division.
Leary 1983	Leary, H.J. and Campbell, D.S., Jr., "Aminosilane and Metal Mofifications of Polyimide Surfaces," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.
Lees 1981	Lees, W.A., "Vehicle Construction Using Adhesives," Design Engineering, March 1981, pp. 39-43.
Lee 1984a	Lee, LH., "Developments and Limitations of Adhesive Materials for Severe Environments and Long Servive Life", Webster Research Center, Xerox Corporation, Webster, New York, 1984.
Lee 1984b	Lee, LH., "Recent Developments in Adhesive and Sealant Chemistry," Webster Research Center, Xerox Corporation, Webster, New York, 1984.
Leitheiser 1979	Leitheiser, R.H., Londrigan, M.E. and Rude, C.A., "Furan Resinous Cements," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Chemistry, Vol. 40, April 1979.

LeMay, J.D., Swetlin, B.J. and Kelley, F.N., LeMay 1983 "Structure and Fracture of Highly Cross-linked Networks," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983. Leung, C.L. and Kaelble, D.H., "Moisture Diffusion and Leung 1979 Microdamage in Composites," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979. Levy, R.L., "Fatigue-Induced Vibrational Shifts in Levy 1981 Polyimide Films," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981. Levy, R.L. and Ames, D.P., "Monitoring Epoxy Cure Levy 1983 Kinetics with a Viscosity-Dependent Fluorescence Probe," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983. Lewis, A.F. and Natarajan, R.T., "Durability of Lewis 1976 Adhesive Joints, A Systems Approach," Adhesives Age, October 1976, pp. 21-25. Lewis, A.F., Doyle, M.J. and Gillham, J.K., "Effect of Lewis 1979 Cure History on Dynamic Mechanical Properties of An Epoxy Resin," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979. Lioyd, G.O., Calder, A.J.J., "The Microstructure of Lloyd 1982 Epoxy Bonded Steel-to-Concrete Joints", TRRL Supplementary Report No. 705, 1982. Lipatov, Y., "On the Structure of Boundary Layers of Lipatov 1979 Polymers on Solid Surfaces," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979. Macdonald, M.D., "The Flexural Behavior of Concrete Macdonald 1978 Beams with Bonded External Reinforcement", TRRL Supplementary Report No. 415, 1978. Mahishi, J.M. and Adams, D.F., "Energy Release Rate Mahishi 1983

November, 1983.

During Delamination Crack Growth in Notched Composite

Delamination and Debonding of Materials, Pittsburgh,

Laminates," Presented at the ASTM Symposium on

Mall, S., Johnson, W.S. and Everett, R.A., Jr.,
"Cyclic Debonding of Adhesively Bonded Composites,"
NASA Technical Memorandum 84577, Langley Research
Center, Hampton, Virginia, November 1982.

Marchessault 1977 Marchessault, R.H., "Light Scattering from Epoxy

Marchessault, R.H., "Light Scattering from Epoxy Elastomeric Resins," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Maslow, P., "Epoxy Resins with Concrete," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Masters, L.W., "Development of Standards for Evaluating Solar Absorptive Coatings," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Masuoka, M. and Nakao, K., "Criteria of Interfacial Fracture on Tensile Bond System," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Maugis, D. and Barquins, M., "Fracture Mechanics and Adherence of Viscoelastic Solids,"Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

May, L.C., and Adsit, N.R., "The Mechanical Behavior of Adhesive Materials," Adhesives Age, October 1976, pp. 31-34.

Mayne, J.E.O. and Mills, D.J., "Structural Changes in Polymer Films. Part 1: The Influence of the Transition Temperature on the Electroytic Resistance and Water Uptake," Journal of Oil College Chemical Association, 1982, (Vol 65), pp. 138-142.

Mays, G.C. and Smith, D.W., "Slab of the Future," Concrete, June 1980.

Mays, G.C., Tilly, G.P., "Long Endurance Fatigue Performance of Bonded Structural Joints," International Journal of Adhesion and Adhesives, April 1982, pp. 109-113.

Maslow 1979

Masters 1979

Masuoka 1979

Maugis 1979

May 1976

Mayne 1982

Mays 1980

Mays 1982a

Mays 1982b

Mays, G.C. and Vardy, A.E., "Adhesive-Bonded Steel/Concrete Composite Construction," International Journal of Adhesion and Adhesives, Buttersworth & Co., Ltd., April 1982.

Mays 1982c

Mays, G.C. Harvey, W.J., "Fatigue Performance of Adhesive Bonded Joints for Bridge Deck Construction", Proceedings, Colloquium, Lausanne, International Association for Bridge and Structural Engineering, 1982.

Mecklenburg 1984

Mecklenburg, M.F. and Albrecht, P., "Durability of Adhesives in Adverse Environments", Department of Civil Engineering, University of Maryland, College Park, Maryland, August, 1984.

Michel 1981

Michel, J., Manson, J.A. and Hertzberg, R.W., "A Simple Viscoelastic Model for Fatigue Crack Propagation in Polymers as a Function of Molecular Weight," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Mih 1983

Mih, W.C., "Catalysts for Epoxy Molding Compounds in Microelectronic Encapsulation," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Miki 1979

Miki, M., "Time Dependent Probabilistic Failure Model for the Impact Strength of Fiber Reinforced Plastics," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Miller 1979

Miller, T.J., "Tensile Strengths of Polymer Coated Optical Fibers," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Minford 1973

Minford, J.D., "Durability of Adhesive Bonded Aluminum Joints," Treatise on Adhesion and Adhesives, Alcoa Research Laboratories, Alcoa TechnicalCenter, 1973, pp. 79-80, 118-120.

Mittal 1979

Mittal, K.L. and Lussow, R.O., "Adhesion Measurement of Polymer Films and Coatings with Special Reference to Photoresist Materials," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979. Miyairi 1979

Miyairi, H., Fukuda, H. and Muramatsu, A.,
"Deformation and Shear Strength of FRP Adhesive
Joints," Preprints of American Chemical
Society/Chemical Society of Japan Chemical Congress,
Division of Organic Coatings and Plastics Chemistry,
Vol. 40, April 1979.

McLean

McLean, P.D., Scott, R.F., Lees, S., MacPhee, K.E., Daly, J., Gordon, A., "Increases in Composite Performance by the Use of Improved Epoxy-Amine Matrices," NRCC 23213.

McLean 1983

McLean, Paul D., Scott, Robert F., Garton, Andrew, "Fortifiers for Epoxy - Amine Systems," The British Polymer Journal, Vol 15, March 1983.

Moet 1981

Moet, A. and Chudnovsky, A., "Application of the Crack Layer Theory to Fatigue Crack Propagation in Polymers," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Mohlin 1983

Mohlin, T., Blom, A.R., Carlsson, L.A. and Gustavsson, A., "Delamination Growth in Notched Graphics/Epoxy Laminates Under Compression Fatigue Loading," Proceedings of ASTM Symposium on Delamination and Debonding, November 1983, Pittsburgh, Penn.

Morgan 1979

Morgan, R.J., "Structure-Property Relations of Composite Matrices," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979. Morris 1979

Morris, C.E.M., Moritz, A.G. and Davidson, R.G., "Composition and Ageing of a Structural, Epoxy-based Film Adhesive," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Murry 1979

Murry, B.D., "Anaerobic Adhesive Technology," Journal of Applied Polymer Science: Applied Polymer Symposium 32, 1979, pp. 411-420.

Nara 1981

Nara, H. and Gasparini, D., "Fatigue Resistance of Adhesively Bonded Connections," Report No. FHWA/OH-81/001, Department of Civil Engineering, Case Institute of Technology, Cleveland, Ohio, November, 1981.

Nara 1982

Nara, H. and Gasparini, D., "Mechanical Properties of Steel-to-Steel Adhesive Bonds," Proposal Approved by the Ohio Dept. of Transportation, October 1982.

Nash 1979

Nash, H.C., Poranski, C.F. and Ting, R.Y., Jr., "Aging Studies of Graphite/Polyimide Pregreg Materials," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Natarajan 1977

Natarajan, R.T., "The Nucleation and Growth Theory of Adhesive Joint Strength Development," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Neubauer 1977

Neubauer, E.A., Devia-Manjarres, N., Thomas, D.A. and Sperling, L.H., "Decrosslinking and Annealing Studies on Semi-Interpenetrating Polymer Networks," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

NMAB 1984

"Reliability of Adhesive Bonds Under Severe Environments", Report Number NMAB-422, National Materials Advisory Board, National Research Council, Washington, D.C., December 1984

Norris 1980

Norris, F.D. and Derby, E., "Survey of Metal-Matrix Technology for Fabrication of Bridging Structures", AMMRC TR 80-53, Final Report Contract DAAG 46-79-C-0067 Army Materials and Mechanics Research Center, Watertown, Massachusetts, November, 1980.

O'Brien 1983

O'Brien, K.T., "Mixed-Mode Strain-Energy-Release Rate Effects on Edge Delamination of Composites," NASA Technical Memorandum 84592, NASA, Langley Research Center, Hampton, Virginia, January 1983.

O'Brien 1984

O'Brien, T.K., "Interlaminar Fracture of Composites", NASA Technical Memorandum 85768, USAAVSCOM Technical Report TR-84-B-2, NASA, National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, June 1984.

0'Connor 1977

O'Connor, J.E., Lewis, A.F., "On the Enhancement of Carbon Fiber/Nylon Matrix Adhesion vis In Situ Polymerized Coatings," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Oliver 1984

Oliver, D.E., Stanley, P., and Webber, J.M.B., "The Use of Sensitive Temperature Transducers to Produce Stress Maps of Cyclically Loaded Structures," Paper Presented Before Committee AZCOZ at the Annual Meeting, National Research Council, Transportation Research Board (Wash., D.C., 1984).

0'Malley 1976

O'Malley, J.J., "Polymeric Thin Films - Preparations and Properties," Coatings and Plastics Preprints of Papers Presented at the 171 Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 36, No. 1, April 1976.

Panos 1979

Panos, R.M., Kaelble, D.H., Dynes, P.J. and Haak, R.P., "Experimental Analysis of Hydrothermal Aging in Fiber Reinforced Epoxies," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Pattee 1981

Pattee, H.E., "Joining," Current Awareness Bulletin in Metals and Ceramics Information Control, Report No. 104, October 1981.

Pecht 1984

Pecht, M.G. and Johnson, M.W., "The Mechanical Response of Cellulosic Paper Sheets Under Various Constant Regarin Stress", Presented at SECTAMX11, University of Maryland, College Park, Maryland, May 10-11, 1984.

Peebles, L.H.

Peebles, L.H., Jr., "Adhesive Bonding in Harsh Environments Interests and Activities of DOD and NASA". Plecnik 1980

Plecnik, J.M., Bresler, B., Cunningham, J.D. and Iding, R., "Temperature Effects on Epoxy Adhesives," ASCE Journal of the Structural Division, Vol. 106, No. 1, January 1980, pp. 99-104.

Post 1984

Post, D., Czarnek, R., Wood, J., Joh, D. and Lubowinski, S., "Deformations and Strains in Adhesive Joints by Moire Interfermety", NASA Contractor Report 172474, NASA, National Aeronautics and Space Administration, October, 1984.

Plecnik 1980

Plecnik, J.M., Bresler, B., Cunningham, J.D. and Iding, R., "Temperature Effects on Expoxy Adhesives," ASCE Journal of the Structural Division, Vol. 106, No. 1, January 1980, pp. 99-104.

Prane 1979

Prane, J.W., "Reactive Adhesives," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Qureshi 1983

Qureshi, S., Manson, J.A., Hertzberg, R.W. and Sperling, L.H., "Mechanical Behavior of Some Epoxies with Epoxidized Natural Oils as Reactive Diluents," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Raithby 1980

Raithby, K.D., "External Strengthening of Concrete Bridges with Bonded Steel Plates", TRRL Supplementary Report No. 612, 1980.

Ramirez 1981

Ramirez, A., Manson, J.A. and Hertzberg, R.W.,
"Fatigue Crack Propagation in Amorphous Poly (ethylene terephthalate)," Preprints of 182nd National Meeting,
Division of Organic Coatings and Plastics Chemistry,
American Chemical Society, Vol. 45, August 1981.

Rao Valisetty 1983

Rao Valisetty, R., Rehfield, Lawrence W., "A New Approach to Interlaminar Stress Analysis," presented at the ASTM Symposium on Delamination and Debonding of Materials, Pittsburgh, PA, 8-10 Nov. 1983.

Ratner 1979

Ratner, B.D. and Hoffman, A.B., "Surface Characterization of Hydrophilic-Hydrophobic Copolymer Model Systems," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Reddy 1982

Reddy, A.D., Rehfield, L.W. and Haag, R.S., "Influence of Prescribed Delaminations on Stiffness Controlled Behavior of Composite Laminates," ASTM Symposium on effects of Defects in Composite Materials, San Francisco, California, December 13-14, 1982. Reddy 1983

Reddy, A.D., Rehfield, L.W. and Haag, R.S., "Effect of Large Delaminations on the Compressive Postbuckling Behavior of Laminated Composite Panels," Presented at the Sixth Conference on Fibrous Composites in Structural Design, New Orleans, Louisiana, January 24-27, 1983.

Rioux 1981

Rioux, R.J., "Epoxies-What They Can & Can't Do," Presented at Northwest Bridge Engineers Seminar, October 1981.

Rochefort 1983

Rochefort, M.A. and Brinson, H.F., "Nonlinear Viscoelastic Characterization of Structural Adhesives," NASA Contractor Report 172279, NASA, Langley Research Center, Hampton, Virginia, December 1983.

Romanko 1980

Romanko, John and Knauss, W.G., "Fatigue Behavior of Adhesively Bonded Joints," Vol. II: Appendices, April 1980.

Romanko 1982

Final Report for Period July 1979-July 1982, "Integrated Methodology for Adhesive Bonded Joint Life Predictions," General Dynamics, Fort Worth Division Technical Report AFWAL-TR-82-4139, November 1982.

Roylance 1981

Roylance, M. and Roylance, D., "The Effect of Moisture on the Fatigue Resistance of and Aramid/Epoxy Composite," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Roylance 1981

Roylance, D., "Finite Element Modelling of Polymer Melt Flows," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Rubner 1983

Rubner, M., Tripathy, S., Lee, K., Georger, J., Jopson, H. and Cholewa, P., "Structure-Property Relationships of Polyacetylene/Elastomer Blends," Preprints of 185th National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 48, March 1983.

Rudy 1982

Rudy, Edward E., "Advanced Composite Materials in Military Bridging - Aluminum Graphite/Epoxy Sandwich Panel Installed As Bottom Chord of A Bridge Girder", Report 2370, U.S. Army Mobility Equipment Research and Development Command, Fort Belvoir, Virginia.

Russel 1983

Russel, W.J., "Use of Stressed Durability Testing to Evaluate Polyhydric Alcohol-Phosphoric Acid Pretreatment of Steel for Adhesive Bonding," Technical Report ARSCD-TR-83014, Final Report, ARDS, TSD STINFO Div., Dover, N.J., October 1983. Rutherford 1979

Rutherford, J.L., and Hughes, J.H., "Creep in Adhesive Bonded Metal Joints," Sampe Quarterly, Vol. 10, No. 4, July 1979, pp. 27-31.

Sacher 1979

Sacher, R.E., and Plapinger, J.D., "Characterization Techniques for the Evaluation of Aging of Prepreg and Composite Systems," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Sancaktar 1979

Sancaktar, E., Cartner, J.S., Griffith, W.I. and Brinson, H.F., "The Viscoelastic Shear Behavior of a Structural Adhesive," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Schenck 1983

Schenck, S.C. and Sancaktar, E., "Material Characterization of Structural Adhesives in the Lap Shear Mode," NASA Contractor Report No. 172237, Clarkson College of Technology, Potsdam, New York, September 1983.

Schlegel 1962

Schlegel, I., "The Application of Adhesives for Bonding Metals in Light Construction", Wissenschaftlich Zeitschrift Der Hochschule Fur Bauwesen, 1962.

Schrader 1977

Schrader, M.E. and Cardamone, J.A., "Adhesion Promoters for Titanium-Resin Interfaces," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Seaman 1984

Seaman, L., Curran, D.R., "A Microstatistical Model for Ductile Fracture Under Loading Ranging from Quasi-Static to Impacts," Presentation at the 8th International Conference on High Energy Rate Fabrication, June 17-21, 1984.

Sendecky J

Sendecky J, G.P., "Effect of Porosity on Behavior of Resin-Matrix Composite Materials," Department of The Air Force, Air Force Wright Aeronautical Laboratories (AFSC).

Serafini 1979

Serafini, T.T., "Status Review of PMR Polyimides,' Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Serrano	1981	

Serrano, S.M., Welsch, G.E. and Gibala, R., "An Electrical Method of Measuring Crack Length During Crack Propagation Tests of Polymers," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Serrano 1981

Serrano, A.M., Welsch, G.E. and Gibala, R., "Fracture Toughness and Fatigue of Polystyrene, Polyphenylene Oxifde and Their Blends," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Seymour 1979

Seymour, R.B., "Plastic Cements," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Sharpe 1966

Sharpe, L.H., "Some Aspects of the Permanence of Adhesive Joints," No. 3, Applied Polymer Symposia, 1966, pp. 353-359.

Shields 1970

Shields, J., "Adhesive Materials and Properties," Adhesives Handbook, The Chemical Rubber Co., Cleveland, Ohio, 1970, pp. 28-32.

Skeist 1962

"Handbook of Adhesives," I. Skeist, Editor, Reinhold Publishing Corp., Chapman & Hall LTD., London, 1962 pp. 5, 72-76.

Skibo 1977

Skinbo, M., Janiszewski, J., Manson, J.A. and Hertzberg, R.W., "Fatigue Crack Propagation in High-Impact Polystyrene," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Smay 1980

Smay, V.E., "The Glue Revolution, in Changing the Way We Put it all Together," Popular Science, August 1980.

Smith 1977

Smith, A.G., and Dickie, R.A., "Adhesion Failure Mechanisms of Primers," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Smith 1978

Smith, M.K., Hart-Smith, L.J., and Dietz, C.G., "Interactive Composite Joint Design," Report No. AFFDL-TR-78-38, Part 1, Air Force Flight Dynamics Laboratory, Wright-Patterson Air Force Base, Ohio, April 1978.

Smith 1978

Smith, M.K., Hart-Smith, L.J. and Dietz, C.G.,
"Interactive Composite Joint Design, Programming
Manual," Tech. Report AFFDL-TR-78-38, Part 3, Final
Report for Period April 1976 to April 1978, Air Force
Flight Dynamics Laboratory, Air Force Wright
Aeronautical Laboratories, Air Force Systems Command,
Wright-Patterson Air Force Base, Ohio, April 1978.

Smith 1979

Smith, T. and Smith, P., "Techiques for Measuring Adhesive vs. Cohesive Failure," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Solomon 1976

Solomon, S.K., Smith, D.W., Cusens, A.R., "Flexural Tests of Steel-Concrete-Steel Sandwiches," Magazine of Concrete Research: Vol. 28, No. 94: March 1976.

Solomon 1979

Solomon, J.S. and Hanlin, C., "Adhesive-Adherend Bond Joint Characterization," by Auger Electron Spectroscopy and Photoelectron Spectroscopy (ESCA), Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Sommerard 1977

Sommerard, T., "Swanley's Steel-plate Patch-Up", New Civil Engineer, 16 Jun 1977.

Sosa 1979

Sosa, J.M., "Epoxy Resin Cements," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Spaeth 1983

Spaeth, Frederick J., "Low Temperature Microcrystalline Zinc Phosphate Coating FINISHING '83 Conference Proceedings.

Sprouse 1979

Sprouse, J.F., "Analysis of Curing Processes in Composites by FTS-IR," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Sternstein 1977

Sternstein, S.S., Obata, Y. and Furst, R., "Nonlinear Mechanical Properties of Impact Plastics," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Stone 1975

Stone, S.F., Westmann, R.A., Fourney, M.E.,
"Analytical and Experimental Studies in Adhesive
Mechanics" UCLA - 7556, University of California, Los
Angeles, California.

Stratton 1977

Stratton, F.W., Alexander, R., Nolting, W., "Cracked Structural Concrete Repair Through Epoxy Injection and Rebar Insertion", Interim Report No. FHWA-KS-RD. 76-2 prepared for Federal Highway Administration, Topeka KS, Kansas Div., Nov. 1977.

Stratton 1978

Stratton, F.W., Alexander, R., Nolting, W., "Cracked Structural Concrete Repair Through Epoxy Injection and Rebar Insertion", Final Report No. FHWA-KS-RD. 78-3 prepared for Federal Highway Administration, Topeka KS Kansas Div., Nov. 1978.

Subramanian 1979

Subramanian, r.V., Jakubowski, J.J. and Sundaram, V., "Interphase Resin Modification in Graphite Composites," Preprints of American Chemical Society/ Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Sung 1979

Sung, C.S.P., Lee, S.H. and Sung, N.H., "Elucidation of the Structure of Silane Film at Metal-Polymer Interface," Preprints of American Chemical Society/ Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Szepe 1965

Szepe, F., "Strength of Adhesive-Bonded Lap Joints with Respect to Change of Temperature and Fatigue," paper presented at the Second SESA International Congress on Experimental Mechanics, Wash. D.C., Spetember 1965.

Tabor 1978

Tabor, L.J., "Effective Use of Epoxy and Polyester Resins in Civil Engineering Structures," CIRIA Report 69, Construction Industry Research and Information Association, London, England, January, 1978.

Takahasi 1979

Takahasi, A., Kawaguchi, M. and Kato, T., "Adsorption of Linear, Branched and Ionic Polymers Studied by Ellipsometry," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Takemori 1981a

Takemori, M.T. and Morelli, T.A., "Biaxial Impact Fatigue of Polymers," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Takemori 1981b

Takemori, M.T., "Fatigue Fracture of Polycarbonate," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Thompson 1979

Thompson, E.V., "Fracture Surface Morphology and Phase Relationships of Polystryrene/Poly (methylmethacrylate) Systems: Part III. Low-Molecular-Weight Polystyrene in Polystyrene/Poly (methylmethacrylate) Copolymers," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Trittler 1964

Trittler, G. and Dornen, K., "The Prestressed Bonded Joint, a Continuing Development of Connections for Steel Construction," Der Stahlbau, Heft 9, September 1964.

Ting

Ting, R.Y., "A Study on Elastomer/Metal Bonds Applicable in Underwater Sonar Systems," Navel Research Laboratory, USRD, Orlando, FL.

Tsai 1979

Tsai, S.W. and Hahn, H.T., "Plenary Lecture: Role of Interface in the Strength of Composite Materials," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Tsuda 1979

Tsufda, M., Oikawa, S., Nakamura, Y., Nagata, H., Yokota, A., Nakane, H., Tsumori, T. and Hanane, Y., "Sensitized Photodegradation of Poly (methylmethacrylate)," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Tsuji 1979

Tsuji, T., Masuoka, M. and Nakao, K., "Superposition of Peel Rate, Temperature and Molecular Weight for T Peel Strength of Polyisobutylene," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Tsunoda 1979

Tsunoda, T., Yamaoka, T., Koseki, K. and Tabayashi, I., "Photocross-linking of 1,2-Polybutadiene by Aromatic Azide," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Tuttle 1983

Tuttle, M.E. and Brinson, H.F., "Resistance Foil Strain Gage Technology as Applied to Composite Materials," Report No. VPI-E-83-19, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, June 1983.

Usmani 1981

Usmani, A.M. and Salyer, I.O., "In-Situ Generated Resin Bonded Bagasse Composite Materials," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981. Valitsky 1983

Valitsky, Robert A., "The Role of Adhesives and Sealants in Fitting Cylindrical Parts," SAE Technical Paper Series No. 830667.

Varshney 1981

Varshney, S.K. and Beatty, C.L., "Synthesis and Characterization of Poly (methylmethacrylate) and Poly (dimethylsiloxane) Block Copolymers with Organometallic Initiators," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Venables 1984

Venables, J.D., "Review Adhesion and Durability of Metal - Polymer Bonds," Journal of Material Science 19. 1984.

Vinson 1981

Vinson, J.R. and Tschirschnitz, R.H., "Effects of Strain Rate and Temperature on Shear Properties of Epoxy Adhesives," Article from Univ. of Delaware, Newark, Delaware.

Vista 1981

Semiannual Progress Report No. 2, (1 April 1981 to September 30, 1981) "Viscoelastic Stress Analysis Including Moisture Diffusion for Adhesively Bonded Joints," General Dynamics, Fort Worth Division Technical Report FZM-6994, September 1981.

Vista 1982a

Semiannual Progress Report No. 3, (October 1, 1981 to March 31, 1982), "Visoelestic Stress analysis Including Moisture Diffusion for Adhesively Bonded Joints," General Dynamics, Fort Worth Division Technical Report FZM-7043, April 1982.

Vista 1982b

Semiannual Progress Report No. 4, (1 April to 30 September 1982), "Viscoelastic Stress Analysis Including Moisture Diffusion For Adhesively Bonded Joints," General Dynamics, Fort Worth Division Technical Report FZM-7063, October 1982.

Vista 1983

Semiannual Progress Report No. 5, (1 October 1982 to 31 March 1983), "Viscoelastic Stress Analysis Including Moisture Diffusion For Adhesively Bonded Joints," General Dynamics, Fort Worth Division Technical Report FZM-7115, April 1983.

VonKuzenko 1979

VonKuzenko, M. and Browning, C.E., "Dynamic Mechanical Characterization of Advanced Composite Epoxy Matrix Resins," Preprints of American Chemical Society/ Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Vyas 1979

Vyas, M.K.R., "Mechanical Properties of Polypropylene Used for Fiber Packaging," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Wang 1983

Wang, A.S.D., Slomiana, M. and Bucinell, R.B., "Delamination Crack Growth in Composite Laminates," Drexel University, Philadelphia, PA., November 1983.

Wang 1983a

Wang, S.S., Yuan, F.G., "A Hybrid Finite Element Approach to Composite Laminate Elasticity Problems with Singularities," Journal of Applied Mechanics, Vol. 50, December 1983.

Wang 1983b

Wang, S.S., Yuan, F.G., "A Singular Hybrid Finite Element Analysis of Boundary-Layer Stresses in Composite Laminates," International Journal of Solids and Structures, Vol. 19, No. 9, pp 825-837, 1983.

Wellinghoff 1981

Wellinghoff, S.T. and Mai, T.D.Q., "Non-Linear Dynamic Mechanical Behavior of Polymer Blends," Preprints of 182nd National Meeting, Divison of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Whitcomb 1983

Whitcomb, John, D., "Strain Energy Release Rate Analysis of Cyclic Delamination Growth in Compressively Loaded Laminaters" NASA Report No. TM-84598, NASA, Langley Reseach Center, Hampton, Virginia, 1983.

Whitcomb 1984a

Whitcomb, J.D. and Dattaguru, B., "User's Manual for GAMNAS-Geometric and Material Nonlinear Analysis of Structures, NASA Technical Memorandum 85734, NASA, Langley Research Center, Hampton, Virginia, January 1984.

Whitcomb 1984b

Whitcomb, J.D. and Raju, I.S., "Analysis of Interlaminar Stresses 10 Thick Composite Laminates With and Without Edge Delamination," NASA Technical Memorandum 85735, NASA, Langley Research Center, Hampton, Virginia, January 1984.

Wood

Wood, J.D. and Hyer, M.W., "The Effect of Delaminations on the Thermal Expansion Behavior of Quasi-Isotropic Composite Laminates," Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

Wool 1979

Wool, R.P., "Crack Healing in Polymers," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979. Wyzgoski 1981

Wyzgoski, M., "The Role of Solubility in Stress Cracking of Nylon-6,6," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Yamaguchi 1979

Yamaguchi, Y. and Amano, S., "Stress Distribution and Strength in Shear on the Adhesive Lap Joint Loading Bending Moment," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol 40, April 1979.

Yenalyev 1981

Yenalyev, V.D., Melnichenko, V.I., Bovkunenko, O.P., Shelest, A.N., Tchalaya, N.M. and Yegorova, Y.I., "On the Correlation of Mechanical Properties of High Impact Polystyrene with its Morphology, Molecular Weight Characteristics and Extrusion Conditions," Preprints of 182nd National Meeting, Division of Organic Coatings and Plastics Chemistry, American Chemical Society, Vol. 45, August 1981.

Yoshida 1979

Yoshida, H., "Viscoelastic Properties of Fiber Reinforced Plastics," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Young 1979

Young, P.R. and Sykes, G.F., "Characterization and Aging Effects of LARC-160," Preprints of American Chemical Society/Chemical Society of Japan Chemical Congress, Division of Organic Coatings and Plastics Chemistry, Vol. 40, April 1979.

Zisman 1977

Zisman, W.A., "An Interdisciplinary Approach to Wetting, Adhesion and Protective Coatings," Preprints of 173rd Meeting, American Chemical Society, Division of Organic Coatings and Plastics Chemistry, Vol. 37, No. 1, March 1977.

Unidentified

"The Strengthening of Concrete Beams by Bonded Steel Plates."