Journal of Testing and Evaluation **Author Index** Volume 22, 1994

Number	Month of Issue	Pages
1	January	1-90
2	March	91-182
3	May	183-290
4	July	291-400
5	September	401-504
6	November	505-608

Adams, DF: see Odom, EM and Adams, DF

Ajayi, JO

and Elder, HM: Comparative studies of yarn and fabric friction, Sept., 463 and Elder, HM: Objective evaluation of surface characteristics to determine smoothness of pile fabrics, July, 388

Al-Bestaki, NMS: Effect of high strain rate on the properties of PVC pipe, Nov., 574

Albright, FJ

and Annala, J: Practical aspects of dynamic verification of extensometers: Part I-The concepts, Jan., 53

and Annala, J: Practical aspects of dynamic verification of extensometers: Part II-Actual examples, Jan., 58

Anabtawi, MZ and Nazzal, JM: Effect of composition of El-lajjun oil shale on its calorific value, March, 175

Annala, J. see Albright, FJ and Annala, J.

B

Baaklini, GY: see Cios, KJ, Baaklini, GY, Vary, A, and Tjia, RE

Bajere, PA: Review of Handbook of Adhesive Bonded Structural Repair (Wegman and Tulios), Sept., 500

Bank, LC: see Svenson, AL, Hargrave, MW, Bank, LC, and Ye, BS

Beghini, M., Bertini, L., and Raffaelli, P: Numerical analysis of plasticity effects in the hole-drilling residual stress measurement. Nov., 522

Bellingar, T: see Slaten, BL, Shanley, LA, and Bellingar, T

Bertini, L: see Beghini, M, Bertini, L, and Raffaelli, P

Bhattacharja, S: see Todres, HA and Bhattacharja, S

Bhattacharya, S and Kumar, AN: Rcurve generation and CTOD evaluation considering maximum crack growth size and perabolic crack front, Jan., 20

Bodig, J: see Pellicane, PJ, Bodig, J, and Mrema, AL

Böhme, W: see Sharpe, WN, Jr. and Böhrne, W

Borisenko, VA: see Troyanskii, Al and Borisenko, VA

Bouleset, J-F: Security technologies and techniques: airport security systems, May, 247

Brown, SR: see Gaskin, GB. Pilla, GJ. and Brown, SR

Budinski, KG: Scoring of precision spur gears, Sept., 485

Burdette, J. see Larralde, J. Silva-Rodriguez, R. Burdette, J. and Harris, B

\mathbf{C}

Carey, RF: Differential air deflation quality assurance test for surgical gloves. Sept., 440

Cartwright, N: Reaching consensus on technical standards through ICAO: the work of ad hoc group of specialists on the detection of explosives, May, 277

Cavaleiro, A: see Trindade, AC, Cavaleiro, A, and Fernandes, JV

Changizi, K: Computer method of analysis for tire wear characterization, identification, and classification, Jan., 45

Chawla, KK: see Wolfenden, A, Gill, JE, Chawla, KK, Vaidya, RU, and Venkatesh, R

Cles, KJ, Beaklini, GY, Vary, A, and Tile, RE: Radial basis function network legans ceramic processing and predicts related strength and density, July, 343

Cooper, PM: see Roebuck, B, Lord, JD, Cooper, PM, and McCartney, LN

Coudert, EM: see Murakami, Y, Toriyasma, T, and Coudert, EM

Crindo, AJ: see Martínez, JA, Kugler, HP, Merino, S, Drude, H, and Criado, AJ

D

Dunnkardt, RH: see Gilbert, CJ, McNaney, JM, Dauskardt, RH, and Ritchie, RO

Deffele. R: Review of Nondestructive Testing Techniques (Bray and McBride), Sept. 501

Delan, JD: Proposed test method for dynamic properties of connections assembled with mechanical fasteners. Nov.. 542

Draghetti, PM: Aviation security standands development within ASTM Committee F-12 on Security Systems and Equipment, May, 275

Drude, H: see Martinez, JA, Kugler, HP, Merino, S, Drude, H, and Criado, AJ

E

Earthman, JC: see Johnson, NL and Earthman, JC

El-Korchi, T. see Toutanji, HA and El-Korchi. T

Elder, HM: see Ajayi, JO and Elder, HM

Elias, L: Development of trace explosive detection standards, May, 280

Engel, PA: see Milligan, HL, Johnson, BM, and Engel, PA

F

Faucher, B: Crack length and J-integral expressions for specimens loaded in tension, Jan., 30

Feng, X: see Kumar, AM, Hirth, JP, Hoagland, R, and Feng, X

Fernandes, JV: see Trindade, AC, Cavaleiro, A, and Fernandes, JV

Field: DP

Sample, VM, and Rader, RS: Determination of softening kinetics in a material by measuring the evolution of hot flow stress, Nov., 530

see Sample, VM and Field, DP

Fishman, KL and Machmer, D: Testing techniques for measurement of bulk modulus, March, 161

Forbes, D: Need to harmonize cargo security rules, May, 265

Fwa, T-F: see Tan, S-A, Low, B-H, and Fwa. T-F

G

Ganesan, AR: see Sivaganthan, J, Ganesan, AR, Tan, BC, Low, KS, and Sirohi, RS

Gaskin, GB, Pilla, GJ, and Brown, SR: Preparation of stainless steel adherends for adhesive bonding, May, 222

Gilbert, CJ, McNaney, JM, Daugkardt, RH, and Ritchie, RO: Back-face strain compliance and electrical-potential crack length calibrations for the disk-shaped compact-tension DC(T) specimen, March, 117

Gill, JE: see Wolfenden, A, Gill, JE, Chawla, KK, Vaidya, RU, and Venkatesh, R

Green, HJ: Physiologic challenges induced by participation in ice bockeyimplications for training, Jan., 48

Н

Häberle, JG and Matthews, FL: Influence of test piece preparation on the compressive strength of unidirectional fiberreinforced plastic, July, 360

Hargrave, MW: see Svenson, AL, Hargrave, MW, Bank, LC, and Ye, BS

Harris, B: see Larralde, J, Silva-Rodriguez, R, Burdette, J, and Harris, B

Harvey, J, Mills, T, Scheffy, C, Sousa, J, and Monismith, CL: Evaluation of several techniques for measuring air-void content in asphalt concrete specimens, Sept., 424

Henshell, J: Review of Design and Analysis of Single-Pty Roof Systems (Phalen), May, 287

Hillberry, BM: see McKeighan, PC and Hillberry, BM

Hirsch, DB: see Rodak, EM, Taylor, RJ, Hirsch, DB, and Linkey, LJ

Hirth, JP: see Kumar, AM, Hirth, JP, Hoagland, R, and Feng, X

Huntnicky, S: Selection and use of explosives detection devices to check hand-held luggage, May, 282

Hongland, R: see Kunnar, AM, Hirth, JP. Hoagland, R, and Feng, X

J

Jin, L-Z and Sandstrüm, R: Evaluation of machinability data, May, 204

Johnson, BM: see Milligan, HL, Johnson, BM, and Engel, PA

Johnson, NL and Earthman, JC: Numerical model of primary creep deformation in a novel double shear specimen, March, 111

Joy, TJC: Reconciling passenger facilitation and security, May, 245

Kamat, SV: see Srinivas, M. Kamat, SV. and Rao, PR

Kaneshiro, H: see Makabe, C, Kaneshiro, H. and Yara, H

Kang, ZQ, Li, JB, and Wang, ZG: Stress correction for removal of material in X-ray stress determination, May, 217

KarisAllen, KJ and Matthews, JR: Determination of single edge-notched bend specimen load line displacement from remotely located sensors in elasticplastic fracture testing, Nov., 581

Kashef, AE:

Review of Reliability Methods for Engineers (Krishnamoorthi), July, 397 Review of Total Engineering Quality Management (Cottman), July, 397

Kim, YR: see Whitmoyer, SL and Kim,

Klanner, F: see Pippan, R, Plöchl, L, Klanner, F, and Stüwe, HP

Kobayashi, T, Shockey, DA, Ogundele, G, McNabb, DD, and Sidey, D: Deducing crack history in an aged boiler tube from fracture surface topography, July,

Koch, A: Role/responsibility of the freight forwarder, May, 259

Kugler, HP: see Martinez, JA, Kugler, HP, Merino, S, Drude, H, and Criado, AJ

Kumar, AM, Hirth, JP, Hoagland, R. and Feng, X: Suggested test procedure to measure Mixed Mode I-III fracture toughness of brittle materials, July, 327

Kumar, AN: see Bhattacharya, S and Kumar, AN

L

Laird, DR: Regulation: perception and reality, May, 240

Landes, JD: see Wilson, CD and Landes, JD

Larralde, J, Silva-Rodriguez, R, Burdette, J, and Harris, B: Bond tests of fiberglass-reinforced plastic bars in concrete, July, 351

Lerman, S: Review of Ultraclean Technology Handbook, Volume 1. Ultrapure Water (Ohmi), March, 180

Li, JB: see Kang, ZQ, Li, JB, and Wang, ZG

Linley, LJ: see Rodak, EM, Taylor, RJ, Hirsch, DB, and Linley, LJ

Lord, JD: see Roebuck, B, Lord, JD, Cooper, PM, and McCartney, LN

Low, B-H: see Tan, S-A, Low, B-H, and Fwa, T-F

Low, KS: see Sivaganthan, J. Ganesan, AR, Tan, BC, Low, KS, and Sirohi, RS

Lukens, KF: see Rinnovatore, JV, Lukens, KF, Reinhold, J. and Mahon, W.

M

Machmer, D: see Fishman, KL and Machmer, D

Mahendran, M: Effect of overload cycles on thin steel roof claddings during cyclonic winds, Sept., 451

Mahon, W: see Rinnovatore, JV, Lukens, KF, Reinhold, J, and Mahon, W

Makabe, C, Kaneshiro, H, and Yara, H: Fatigue crack propagation in a specimen with a complicated cross-section; characterization of the stress intensity factor. March, 91

Malotky, LO: Introduction to the Sixth International Civil Aviaiton Security Conference (AVSEC'93), May, 235

Martinez, JA, Kugler, HP, Merino, S, Drude, H, and Criado, AJ: Mechanical study of a hypoeutectoid steel weld, Sept., 458

Masuda, H: see Miyahara, K. Matsuoka, S. Nagashima, N. and Masuda, H.

Matsuoka, S. see Miyahara, K. Matsuoka, S, Nagashima, N, and Masuda, H

Matthews, FL: see Häberle, JG and Matthews, FL

Matthews, JM: see Schmitt, FC and Matthews. JM

Matthews, JR: see KarisAllen, KJ and Matthews, JR

McCartney, LN: see Roebuck, B. Lord, JD, Cooper, PM, and McCartney, LN

McKeighan, PC

and Hillberry, BM: On the uncertainties involved in quantifying the fracture toughness of Al-Li-X alloys, Jan., 3

and Smith, DJ: Determining the potential drop calibration of a fatigue crack growth specimen subject to limited experimental observations, July, 291

McNabb, DD: see Kobayashi, T, Shockey, DA, Ogundele, G, McNabb, DD, and Sidey, D

McNaney, JM: see Gilbert, CJ, McNaney. JM, Dauskardt, RH, and Ritchie, RO

Megargle, R: Review of Ensuring Software Reliability (Neufelder), March, 179

Merino, S: see Martinez, JA. Kugler, HP. Merino, S. Drude, H. and Criado, AJ

Milligan, HL, Johnson, BM, and Engel, PA: Wear analysis of Björk Shiley Delrin tilting disc heart valves, Sept., 474

Mills, T. see Harvey, J. Mills, T. Scheffy, C. Sousa, J. and Monismith, CL

Miyahara, K, Matsuoka, S, Nagashima, N, and Masuda, H: Application of surface fabrication to strain measurement in nanometer scale with the scanning tunneling microscope, March, 121

Monismith, CL: see Harvey, J. Mills, T. Scheffy, C. Sousa, J. and Monismith, CL

Moore, ID: Local strain in corrugated pipe: experimental measurements to test a numerical model, March, 132

Moskala, EJ: see Pecorini, TJ and Moskala, EJ

Mrema, AL: see Pellicane, PJ, Bodig, J, and Mrema, AL

Murakami, Y, Toriyama, T, and Coudert. EM: Instructions for a new method of inclusion rating and correlations with the fatigue limit, July, 318

N-O

Nagashima, N: see Miyahara, K, Matsuoka, S. Nagashima, N. and Masuda, H.

Navarro, C: see Rodríguez, J. Navarro, C. and Sánchez-Gálvez. V

Nazzal, JM: see Anabtawi, MZ and Nazzal, JM

Odom, EM and Adams, DF: Development of an improved compression specimen geometry for unreinforced polymers. March, 104

Ogundele, G: see Kobayashi, T, Shockey, DA, Ogundele, G. McNabb, DD, and Sidey, D

Osmus, LA: Enforcement of international regulations, May, 238

Ozkan, E: Thermal and mechanical properties of cellular polystyrene and polyurethane insulation materials aged on a flat roof in hot-dry climate, March. 149

P

Parker, F, Jr. and Wu, Y: Comparison of asphalt contents measured with the nuclear gage and extraction methods. Nov., 556

Pecorini, TJ and Moskala, EJ: Influence of testing methodology on the fatigue crack propagation behavior of cellulose esters, Sept., 420

Pellicane, PJ:

Bodig, J, and Mrema, AL: Behavior of wood in transverse compression, July, 383

Bodig, J, and Mrema, AL: Modeling wood in transverse compression, July,

Perlov, A: Introduction to workshop on accuracy of load and strain measurement of testing machines, Jan., 52

Pilla, GJ: see Gaskin, GB, Pilla, GJ, and Brown, SR

Pippan, R. Plöchl, L. Klanner, F. and Stawe, HP: Use of fatigue specimens precracked in compression for measuring threshold values and crack growth, March, 98

Plöchi, L. see Pippan, R. Plöchi, L. Klanner, F. and Stüwe, HP

Pelaki, PA: International aviation security research and development, May, 267

R

Rader, RS: see Field, DP, Sample, VM, and Rader, RS

Raffaelli, P. see Beghini, M. Bertini, L. and Raffaelli, P

Ramonmooj, DV: Prediction of fatigue life of plain concrete beams from fracture tests, May, 183

Rao, PR: see Srinivas, M. Kamat, SV. and Rao, PR

Reinhold, J. see Rinnovatore, JV. Lukens. KF, Reinhold, J. and Mahon, W.

Riemslag, AC: Fatigue testing of highdensity polyethylene and polycarbonate with crack length measurement using image processing techniques, Sept., 410

Rinnovatore, JV, Lukens, KF, Reinhold, J. and Mahon, W: Charpy transition studies of an embrittled AISI 8640 lower bainitic steel. Nov., 517.

Ritchie, RO: see Gilbert, CJ, McNaney, JM, Dauskardt, RH, and Ritchie, RO

Rodak, EM. Taylor, RJ, Hirsch, DB, and Linley, LJ: Effects of sample and test variables on electrical wire insulation flammability, Sept., 447

Rodríguez, J, Navarro, C, and Sánchez-Gálvez, V: Numerical assessment of the dynamic tension test using the split Hopkinson bar, July, 335

Roebuck, B, Lord, JD, Cooper, PM, and McCartney, LN: Data acquisition and analysis of tensile properties for metal matrix composites, Jan., 63

Rosenberg, HS and Syrett, BC: Electrochemical impedance spectroscopy for monitoring coating performance in condensing environments, Nov., 537

S

St. John, K: Review of Biological Performance of Materials: Fundamentals of Biocompatibility (Second Edition) (Black), May, 286

Salawu, OS and Williams, C: Excitation system for dynamic testing of large structures, July, 370

Sample, VM:

and Field, DP: Constant temperaturecompensated strain rate testing of aluminum, March, 127

see Field, DP, Sample, VM, and Rader, RS

Sánchez-Gálvez, V: see Rodríguez, J, Navarro, C, and Sánchez-Gálvez, V

Sandström, R: see Jin, L-Z and Sandström, R

Scheffy, C: see Harvey, J, Mills, T, Scheffy, C, Sousa, J. and Monismith, CL

Schmitt, FC and Matthews, JM: Controlling, data acquisition, and data processing for axial and shear creep tests using a computer, Jan., 36

Schrems, KK: Wear-related fatigue in a wire rope failure, Sept., 490

Shanley, LA: see Slaten, BL, Shanley, LA, and Bellingar, T

Sharpe, WN, Jr. and Böhme, W: Dynamic fracture toughness measurements on small charpy specimens—a preliminary study, Jan., 14

Shaw, WJD and Zhao, W: Back face strain calibration for crack length measurements, Nov., 512

Shehata, IH: Review of Statics and Strength of Materials, Second Edition (Morrow), Jan., 84

Shockey, DA: see Kobayashi, T, Shockey, DA, Ogundele, G, McNabb, DD, and Sidey, D

Sickels Taves, Lib: Analysis of creep and shrinkage in mortars, Nov., 548

Sidey, D: see Kobayashi, T, Shockey, DA, Ogundele, G. McNabb, DD, and Sidey, D

Silva-Rodriguez, R: see Larralde, J, Silva-Rodriguez, R. Burdette, J., and Harris. B

Sirohi, RS: see Sivaganthan, J, Ganesan, AR, Tan, BC, Low, KS, and Sirohi, RS

Sivaganthan, J., Gonsson, AR, Tan, BC, Low, KS, and Strobs, RS: Study of steel weldments using electronic speckle pattern interferometry, Jan., 42

Slaten, BL, Shanley, LA, and Bellingar, T: Comparision of selected properties of barrier textile materials used in durable, moisture repellent protective clothing, Nov., 577

Smith, DJ: see McKeighan, PC and Smith, DJ

Sorini, SS: Development and validation of a standard test method for sequential batch extraction of waste with acidic extraction fluid, March, 168

Sousa, J: see Harvey, J, Mills, T, Scheffy, C, Sousa, J, and Montemith, CL

Srinivas, M, Kamat, SV, and Rao, PR: Fractographic technique for the estimation of initiation fracture toughness $J_{\mathbf{k}}$ for ductile materials, July, 302

Stilwe, HP: see Pigpan, R, Plöchl, L, Klanner, F, and Stilwe, HP

Sutherland, RG: Standardized training through the use of the ICAO standardized training packages (STPs), May, 251

Svenson, AL, Hargrave, MW, Bank, LC, and Ye, BS: Data analysis techniques for impact tests of composite materials, Sept., 431

Syrett, BC: see Rosenberg, HS and Syrett, BC

T

Tan, BC: see Sivaganthan, J. Ganesan, AR, Tan, BC, Low, KS, and Sirohi, RS

Tan, S-A, Low, B-H, and Fwa, T-F: Behavior of asphalt concrete mixtures in triaxial compression, May, 195

Tang. T: Effects of load-distributed width on split tension of unnotched and notched cylindrical specimens, Sept., 401

Taylor, RJ: see Rodak, EM, Taylor, RJ, Hirsch, DB, and Linley, LJ

Tjia, RE: see Cios, KJ, Baaklini, GY, Vary, A, and Tjia, RE

Todres, HA and Bhattacharja, S: Solvent-free, nuclear-free determination of asphalt content and gradation of hot-mix asphalt concrete, Nov., 564

Tomesani, L: Relevant errors associated with tension testing of metals, May, 212

Toriyama, T: see Murakami, Y, Toriyama, T. and Coudert, EM

Toutanii, HA and El-Korchi, T: Uniaxial tensile strength of cementitious composites, May, 226

Tovey, FM: Measurement uncertainty analysis of a transfer standard force calibration system, Jan., 70

Trindade, AC, Cavaleiro, A, and Fernandes, JV: Estimation of Young's modulus and of hardness by ultra-low load hardness tests with a Vickers indenter. July, 365

Troyanskii, AI and Borisenko, VA: Temperature dependencies of elasticity characteristics for tellurium-alloyed gallium arsenide, May, 233

Turner, R: Australian system for aviation security identification cards and associated personnel background checking, May, 243

V

Vaidya, RU: see Wolfenden, A, Gill, JE, Chawla, KK, Vaidya, RU, and Venkatesh, R

Vary, A: see Cios, KJ, Baaklini, GY, Vary, A, and Tjia, RE

Venkatesh, R: see Wolfenden, A, Gill, JE, Chawla, KK, Vaidya, RU, and Venkatesh, R

W

Wall, B: IATA and its cooperative role in aviation security, May, 257

Wang, ZG: see Kang, ZQ, Li, JB, and Wang, ZG

Whitmeyer, SL and Kim, YR: Determining asphalt concrete properties via the impact resonant method, March,

Williams, C: see Salawu, OS and Williams, C

Wilson, CD and Landes, JD: Inconsistencies between CTOD and J calculations, Nov., 505

Wolfenden, A, Gill, JE, Chawla, KK, Vaidya, RU, and Venkateshi, R: Temperature dependence of dynamic Young's modulus and mechanical damping in a Nextel fiber-reinforced glass composite, Nov., 571

Wood, FW:

Introduction to the symposium on case studies of wear-related failure analyses. Sept., 468

On the role and analysis of wear in failures, Sept., 470

Wu, XR: see Zhu, YG, Wu, SR, and Yang, YA

Wu, Y: see Parker, F, Jr. and Wu, Y

Y-Z

Yang, YA: see Zhu, YG, Wu, SR, and Yang, YA

Yara, H: see Makabe, C, Kaneshiro, H, and Yara, H

Ye, BS: see Svenson, AL, Hargrave, MW. Bank, LC, and Ye, BS

Zhao, W: see Shaw, WJD and Zhao, W

Zhu, YG, Wu, XR, and Yang, YA: New restraint for high-load-transfer fastener fatigne test, Jan., 81