

# Peter B Nagy

## List of Publications by Year in descending order

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203  
papers

5,249  
citations

101543

36  
h-index

102487

66  
g-index

222  
all docs

222  
docs citations

222  
times ranked

2823  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Design optimisation of permanently installed monitoring system for polycrystalline materials. Structural Health Monitoring, 2021, 20, 1294-1311.  | 7.5 | 1         |
| 2  | Attenuation of Rayleigh waves due to surface roughness. Journal of the Acoustical Society of America, 2021, 149, 4298-4308.   | 1.1 | 15        |
| 3  | Residual stress and cold work assessment in shot-peened IN718 using a dual-mode electromagnetic technique. NDT and E International, 2021, 121, 102463.  | 3.7 | 7         |
| 4  | A Quasi-DC Potential Drop Measurement System for Material Testing. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1313-1326.   | 4.7 | 9         |
| 5  | Monitoring and repair of defects in ultrasonic additive manufacturing. International Journal of Advanced Manufacturing Technology, 2020, 108, 1793-1810.  | 3.0 | 20        |
| 6  | Scattering of the Fundamental Shear Guided Wave From a Surface-Breaking Crack in Plate-Like Structures. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1887-1897. | 3.0 | 18        |
| 7  | High-frequency hall coefficient spectroscopy for nondestructive characterization of shot-peened IN718. AIP Conference Proceedings, 2019, , .  | 0.4 | 0         |
| 8  | Investigation of ultrasonic backscatter using three-dimensional finite element simulations. Journal of the Acoustical Society of America, 2019, 145, 1584-1595.                                       | 1.1 | 12        |
| 9  | The influence of the dynamic magnetoelastic effect on potential drop measurements. NDT and E International, 2019, 102, 153-160.   | 3.7 | 2         |
| 10 | Passive thermoelectric power monitoring for material characterisation. Structural Health Monitoring, 2019, 18, 1915-1927.   | 7.5 | 1         |
| 11 | Inversion procedure for dual-mode electromagnetic nondestructive characterization of shot-peened IN718. NDT and E International, 2019, 101, 17-28.  | 3.7 | 7         |
| 12 | Improved thermoelectric power measurements using a four-point technique. NDT and E International, 2018, 94, 92-100.   | 3.7 | 7         |
| 13 | High-frequency Hall coefficient measurement using inductive sensing for nondestructive materials characterization. NDT and E International, 2018, 94, 109-119.  | 3.7 | 4         |
| 14 | In-situ interfacial quality assessment of Ultrasonic Additive Manufacturing components using ultrasonic NDE. NDT and E International, 2018, 93, 117-130.  | 3.7 | 24        |
| 15 | Permanently installed corrosion monitoring using magnetic measurement of current deflection. Structural Health Monitoring, 2018, 17, 227-239.   | 7.5 | 5         |
| 16 | Designing an in-situ ultrasonic nondestructive evaluation system for ultrasonic additive manufacturing. AIP Conference Proceedings, 2018, , .   | 0.4 | 2         |
| 17 | Nondestructive hall coefficient measurements using ACPD techniques. AIP Conference Proceedings, 2018, , .   | 0.4 | 1         |
| 18 | Monitoring creep damage at a weld using a potential drop technique. International Journal of Pressure Vessels and Piping, 2017, 153, 15-25.   | 2.6 | 6         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Nondestructive Measurement of Hall Coefficient for Materials Characterization. Journal of Nondestructive Evaluation, 2017, 36, 1.  | 2.4 | 5         |
| 20 | Study of metal magnetic memory (MMM) technique using permanently installed magnetic sensor arrays. AIP Conference Proceedings, 2017, , .   | 0.4 | 6         |
| 21 | Guided Wave Tomography of Pipe Bends. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 847-858.  | 3.0 | 24        |
| 22 | Hall coefficient measurement for residual stress assessment in precipitation hardened IN718 nickel-base superalloy. AIP Conference Proceedings, 2017, , .                              | 0.4 | 2         |
| 23 | Experimental studies of the magneto-mechanical memory (MMM) technique using permanently installed magnetic sensor arrays. NDT and E International, 2017, 92, 136-148.                  | 3.7 | 22        |
| 24 | Experimental and simulation methods to study the Magnetic Tomography Method (MTM) for pipe defect detection. NDT and E International, 2017, 92, 59-66.                                 | 3.7 | 18        |
| 25 | Performance evaluation of a magnetic field measurement NDE technique using a model assisted Probability of Detection framework. NDT and E International, 2017, 91, 61-70.              | 3.7 | 13        |
| 26 | Stress Assessment in Precipitation Hardened IN718 Nickel-Base Superalloy Based on Hall Coefficient Measurements. Journal of Nondestructive Evaluation, 2017, 36, 1.                    | 2.4 | 13        |
| 27 | Experimental Validation of a Fast Forward Model for Guided Wave Tomography of Pipe Elbows. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 859-871. | 3.0 | 10        |
| 28 | NDT Techniques: Electrical. , 2016, , .  |     | 2         |
| 29 | Current deflection NDE for pipeline inspection and monitoring. AIP Conference Proceedings, 2016, , .   | 0.4 | 3         |
| 30 | Analytical and numerical modeling of non-collinear shear wave mixing at an imperfect interface. AIP Conference Proceedings, 2016, , .  | 0.4 | 1         |
| 31 | Enhanced nonlinear inspection of diffusion bonded interfaces using reflected non-collinear ultrasonic wave mixing. AIP Conference Proceedings, 2016, , .                               | 0.4 | 2         |
| 32 | On the feasibility of nonlinear assessment of fatigue damage in hardened IN718 specimens based on non-collinear shear wave mixing. AIP Conference Proceedings, 2016, , .               | 0.4 | 5         |
| 33 | On the dimensionality of elastic wave scattering within heterogeneous media. Journal of the Acoustical Society of America, 2016, 140, 4360-4366.                                       | 1.1 | 24        |
| 34 | Current deflection NDE for the inspection and monitoring of pipes. NDT and E International, 2016, 81, 46-59.   | 3.7 | 42        |
| 35 | On the separation of Lorentz and magnetization forces in the transduction mechanism of Electromagnetic Acoustic Transducers (EMATs). NDT and E International, 2016, 84, 1-10.          | 3.7 | 16        |
| 36 | Potential drop monitoring of creep damage at a weld. AIP Conference Proceedings, 2016, , .   | 0.4 | 4         |

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|----|--|-----|-----------|
| 37 | Compensation of the Skin Effect in Low-Frequency Potential Drop Measurements. Journal of Nondestructive Evaluation, 2016, 35, 1.   | 2.4 | 20        |
| 38 | Analytical and numerical modeling of non-collinear shear wave mixing at an imperfect interface. Ultrasonics, 2016, 65, 165-176.  | 3.9 | 39        |
| 39 | Creep strain measurement using a potential drop technique. International Journal of Mechanical Sciences, 2016, 110, 190-200.   | 6.7 | 15        |
| 40 | Numerical study of material nonlinearity assessment based on non-collinear ultrasonic wave mixing. AIP Conference Proceedings, 2015, , .   | 0.4 | 3         |
| 41 | Equivalent body-force model for magnetostrictive transduction in EMATs. , 2015, , .  |     | 0         |
| 42 | Potential drop strain measurement for creep monitoring. , 2015, , .  |     | 0         |
| 43 | Model-Based Design of Low Frequency Lamb Wave EMATs for Mode Selectivity. Journal of Nondestructive Evaluation, 2015, 34, 1.   | 2.4 | 22        |
| 44 | Reflection Phase Measurements for Ultrasonic NDE of Titanium Diffusion Bonds. Journal of Nondestructive Evaluation, 2014, 33, 535-546.   | 2.4 | 9         |
| 45 | Potential Drop Strain Sensor for Creep Monitoring. , 2014, , .   |     | 1         |
| 46 | Thermal stability of curved ray tomography for corrosion monitoring. , 2014, , .   |     | 0         |
| 47 | Numerical design optimization of an EMAT for AO Lamb wave generation in steel plates. , 2014, , .  |     | 20        |
| 48 | Reflection and diffraction corrections for nonlinear materials characterization by quasi-static pulse measurement. , 2014, , .   |     | 2         |
| 49 | Guided wave radiation from a point source in the proximity of a pipe bend. , 2014, , .   |     | 0         |
| 50 | A potential drop strain sensor for in-situ power station creep monitoring. , 2014, , .   |     | 2         |
| 51 | Non-linear Ultrasonic NDE of Titanium Diffusion Bonds. Journal of Nondestructive Evaluation, 2014, 33, 187-195.  | 2.4 | 28        |
| 52 | Corrosion and erosion monitoring in plates and pipes using constant group velocity Lamb wave inspection. Ultrasonics, 2014, 54, 1832-1841.   | 3.9 | 106       |
| 53 | Acoustic formulation of elastic guided wave propagation and scattering in curved tubular structures. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 815-829. | 3.0 | 15        |
| 54 | Guided wave tomography of pipes with high-order helical modes. NDT and E International, 2014, 65, 8-21.  | 3.7 | 69        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Hall coefficient measurement for nondestructive materials characterization. , 2013, , .  |     | 9         |
| 56 | Ultrasonic NDE of titanium diffusion bonds using signal phase. AIP Conference Proceedings, 2013, , .   | 0.4 | 0         |
| 57 | Finite-size effects on the quasistatic displacement pulse in a solid specimen with quadratic nonlinearity. Journal of the Acoustical Society of America, 2013, 134, 1760-1774. | 1.1 | 29        |
| 58 | Pulse propagation in an elastic medium with quadratic nonlinearity (L). Journal of the Acoustical Society of America, 2012, 131, 1827-1830.                                    | 1.1 | 24        |
| 59 | Laser Cutting of Small Diameter Nitinol Tube. Materials Science Forum, 2012, 729, 460-463.   | 0.3 | 2         |
| 60 | Development of Nitinol Stents: Electropolishing Experiments. Materials Science Forum, 2012, 729, 436-441.  | 0.3 | 3         |
| 61 | Assessment of the performance of different EMAT configurations for shear horizontal and torsional waves. , 2012, , .   |     | 1         |
| 62 | Potential drop detection of creep damage in the vicinity of welds. , 2012, , .   |     | 1         |
| 63 | The impact of magnetostriction on the transduction of normal bias field EMATs. NDT and E International, 2012, 51, 8-15.  | 3.7 | 64        |
| 64 | Experimental and numerical evaluation of electromagnetic acoustic transducer performance on steel materials. NDT and E International, 2012, 45, 32-38.                         | 3.7 | 70        |
| 65 | Potential drop detection of creep damage in the vicinity of welds. NDT and E International, 2012, 47, 56-65.   | 3.7 | 11        |
| 66 | Non-collinear wave mixing for non-linear ultrasonic detection of physical ageing in PVC. NDT and E International, 2012, 49, 34-39.   | 3.7 | 65        |
| 67 | Study and comparison of different EMAT configurations for SH wave inspection. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2571-2581.    | 3.0 | 143       |
| 68 | Sensitivity analysis of a directional potential drop sensor for creep monitoring. NDT and E International, 2011, 44, 708-717.  | 3.7 | 26        |
| 69 | Ultrasonic Non-destructive Evaluation of Titanium Diffusion Bonds. Journal of Nondestructive Evaluation, 2011, 30, 225-236.  | 2.4 | 24        |
| 70 | MATERIAL GAUGE FACTOR OF DIRECTIONAL ELECTRIC POTENTIAL DROP SENSORS FOR CREEP MONITORING. AIP Conference Proceedings, 2011, , .   | 0.4 | 5         |
| 71 | IN-SITU CREEP MONITORING USING THE POTENTIAL DROP METHOD. , 2011, , .  |     | 5         |
| 72 | Continuous Creep Damage Monitoring Using a Novel Potential Drop Technique. , 2011, , .   |     | 1         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 73 | EVALUATION OF ELECTROMAGNETIC ACOUSTIC TRANSDUCER PERFORMANCE ON STEEL MATERIALS. , 2011, , .   |      | 4         |
| 74 | GEOMETRICAL GAUGE FACTOR OF DIRECTIONAL ELECTRIC POTENTIAL DROP SENSORS FOR CREEP MONITORING. , 2011, , .   |      | 1         |
| 75 | On the acoustic-radiation-induced strain and stress in elastic solids with quadratic nonlinearity (L). Journal of the Acoustical Society of America, 2011, 129, 3449-3452.  | 1.1  | 29        |
| 76 | A review of non-destructive techniques for the detection of creep damage in power plant steels. NDT and E International, 2010, 43, 555-567.   | 3.7  | 149       |
| 77 | The Effect of Hardness on Eddy Current Residual Stress Profiling in Shot-Peened Nickel Alloys. Journal of Nondestructive Evaluation, 2010, 29, 143-153.   | 2.4  | 37        |
| 78 | Potential drop mapping for the monitoring of corrosion or erosion. NDT and E International, 2010, 43, 394-402.  | 3.7  | 38        |
| 79 | An approximate model for three-dimensional alternating current potential drop analyses using a commercial finite element code. NDT and E International, 2010, 43, 134-140.  | 3.7  | 16        |
| 80 | LIMITATIONS OF EDDY CURRENT RESIDUAL STRESS PROFILING IN SURFACE-TREATED ENGINE ALLOYS OF VARIOUS HARDNESS LEVELS. , 2010, , .  |      | 3         |
| 81 | MODELLING OF ELECTROMAGNETIC ACOUSTIC TRANSDUCERS OPERATING ON FERROMAGNETIC MATERIALS. , 2010, , .   |      | 3         |
| 82 | Non-destructive methods for materials' state awareness monitoring. Insight: Non-Destructive Testing and Condition Monitoring, 2010, 52, 61-71.  | 0.6  | 16        |
| 83 | Quantitative modeling of the transduction of electromagnetic acoustic transducers operating on ferromagnetic media. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2808-2817. | 3.0  | 65        |
| 84 | ON THE INFLUENCE OF COLD WORK ON RESISTIVITY VARIATIONS WITH THERMAL EXPOSURE IN IN-718 NICKEL-BASE SUPERALLOY. , 2010, , .   |      | 2         |
| 85 | POTENTIAL DROP MAPPING FOR CORROSION MONITORING. , 2009, , .  |      | 0         |
| 86 | The use of non-collinear mixing for nonlinear ultrasonic detection of plasticity and fatigue. Journal of the Acoustical Society of America, 2009, 126, EL117-EL122.   | 1.1  | 184       |
| 87 | Revolutionizing biodegradable metals. Materials Today, 2009, 12, 22-32.   | 14.2 | 331       |
| 88 | Eddy current residual stress profiling in surface-treated engine alloys. Nondestructive Testing and Evaluation, 2009, 24, 209-232.  | 2.1  | 34        |
| 89 | CONSTANT GROUP VELOCITY ULTRASONIC GUIDED WAVE INSPECTION FOR CORROSION AND EROSION MONITORING IN PIPES. , 2009, , .  |      | 9         |
| 90 | IN-SITU RESISTIVITY MONITORING OF MICROSTRUCTURE EVOLUTION IN IN718 NICKEL-BASE SUPERALLOY. , 2009, , .   |      | 1         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | THE FEASIBILITY OF EDDY CURRENT CONDUCTIVITY SPECTROSCOPY FOR NEAR-SURFACE COLD WORK PROFILING IN TITANIUM ALLOYS. AIP Conference Proceedings, 2008, , .  | 0.4 | 6         |
| 92  | RECENT IMPROVEMENTS IN HIGH-FREQUENCY EDDY CURRENT CONDUCTIVITY SPECTROSCOPY. AIP Conference Proceedings, 2008, , .   | 0.4 | 10        |
| 93  | POTENTIAL DROP DATA INVERSION FOR CRACK DEPTH PROFILING. AIP Conference Proceedings, 2008, , .  | 0.4 | 0         |
| 94  | High-Frequency Eddy Current Conductivity Spectroscopy for Near-Surface Residual Stress Profiling in Surface-Treated Nickel-Base Superalloys. AIP Conference Proceedings, 2007, , .              | 0.4 | 7         |
| 95  | Iterative Inversion Method for Eddy Current Evaluation of Near-Surface Residual Stress Profile in Surface-Treated Metals. AIP Conference Proceedings, 2007, , .                                 | 0.4 | 2         |
| 96  | Crack Profile Reconstruction by Means of Potential Drop Measurements. AIP Conference Proceedings, 2007, , .   | 0.4 | 2         |
| 97  | Lift-off effect in high-frequency eddy current conductivity spectroscopy. NDT and E International, 2007, 40, 555-565.   | 3.7 | 32        |
| 98  | High-frequency eddy current conductivity spectroscopy for residual stress profiling in surface-treated nickel-base superalloys. NDT and E International, 2007, 40, 405-418.                     | 3.7 | 47        |
| 99  | Eddy Current Assessment of Near-Surface Residual Stress in Shot-Peened Inhomogeneous Nickel-Base Superalloys. Journal of Nondestructive Evaluation, 2006, 25, 16-27.                            | 2.4 | 9         |
| 100 | On the Influence of Cold Work on Eddy Current Characterization of Near-Surface Residual Stress in Shot-Peened Nickel-Base Superalloys. Journal of Nondestructive Evaluation, 2006, 25, 107-122. | 2.4 | 29        |
| 101 | Iterative inversion method for eddy current profiling of near-surface residual stress in surface-treated metals. NDT and E International, 2006, 39, 641-651.                                    | 3.7 | 27        |
| 102 | Potential Drop Spectroscopy for Characterization of Complex Defects. AIP Conference Proceedings, 2006, , .  | 0.4 | 0         |
| 103 | Opportunities and Challenges for Nondestructive Residual Stress Assessment. AIP Conference Proceedings, 2006, , .   | 0.4 | 6         |
| 104 | The Role of Cold Work in Eddy Current Residual Stress Measurements in Shot-Peened Nickel-Base Superalloys. AIP Conference Proceedings, 2006, , .  | 0.4 | 2         |
| 105 | Near-Surface Residual Stress Assessment in Inhomogeneous Nickel-Base Superalloys. AIP Conference Proceedings, 2006, , .   | 0.4 | 1         |
| 106 | Dynamic Piezoresistivity Calibration for Eddy Current Nondestructive Residual Stress Measurements. Journal of Nondestructive Evaluation, 2005, 24, 143-143.                                     | 2.4 | 44        |
| 107 | Piezoresistive Effect for Near-Surface Eddy Current Residual Stress Assessment. AIP Conference Proceedings, 2005, , .   | 0.4 | 0         |
| 108 | Eddy Current Nondestructive Residual Stress Assessment in Shot-Peened Nickel-Base Superalloys. AIP Conference Proceedings, 2005, , .  | 0.4 | 1         |

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|-----|---|-----|-----------|
| 109 | Inversion Procedure for Eddy Current Profiling of the Near-Surface Residual Stress in Shot-Peened Metals. AIP Conference Proceedings, 2005, , .                         | 0.4 | 1         |
| 110 | On the Feasibility of Eddy Current Characterization of the Near-Surface Residual Stress Distribution in Nickel-Base Superalloys. AIP Conference Proceedings, 2004, , .  | 0.4 | 7         |
| 111 | Simple analytical approximations for eddy current profiling of the near-surface residual stress in shot-peened metals. Journal of Applied Physics, 2004, 96, 1257-1266. | 2.5 | 47        |
| 112 | Numerical method for calculating the apparent eddy current conductivity loss on randomly rough surfaces. Journal of Applied Physics, 2004, 95, 8340-8351.               | 2.5 | 26        |
| 113 | Eddy Current Assessment of Near-Surface Residual Stress in Shot-Peened Nickel-Base Superalloys. Journal of Nondestructive Evaluation, 2004, 23, 107-123.                | 2.4 | 68        |
| 114 | A simple numerical model of the apparent loss of eddy current conductivity due to surface roughness. NDT and E International, 2004, 37, 47-56.                          | 3.7 | 20        |
| 115 | Laser-ultrasonic surface wave dispersion measurements on surface-treated metals. Ultrasonics, 2004, 42, 665-669.  | 3.9 | 38        |
| 116 | On the role of material property gradients in noncontacting thermoelectric NDE. NDT and E International, 2003, 36, 339-348.   | 3.7 | 17        |
| 117 | Role of anisotropy in noncontacting thermoelectric materials characterization. Journal of Applied Physics, 2002, 91, 225.   | 2.5 | 25        |
| 118 | Diffraction correction for precision surface acoustic wave velocity measurements. Journal of the Acoustical Society of America, 2002, 112, 835-842.                     | 1.1 | 43        |
| 119 | Thermo-optical modulation of ultrasonic surface waves for NDE. Ultrasonics, 2002, 40, 689-696.  | 3.9 | 12        |
| 120 | NDT Techniques: Electrical. , 2001, , 6016-6018.  |     | 0         |
| 121 | Continuous Monitoring of Binary Gas Mixture Concentration With Application to Turbine Blade Cooling Experiments. Journal of Turbomachinery, 2000, 122, 570-578.         | 1.7 | 0         |
| 122 | Thermo-optical modulation for improved ultrasonic fatigue crack detection in Ti-6Al-4V. NDT and E International, 2000, 33, 213-223.                                     | 3.7 | 20        |
| 123 | Improved ultrasonic detection of fatigue cracks in Ti-6Al-4V by thermo-optical modulation. AIP Conference Proceedings, 2000, , .  | 0.4 | 0         |
| 124 | Analyses of axisymmetric waves in layered piezoelectric rods and their composites. Journal of the Acoustical Society of America, 2000, 108, 1496-1504.                  | 1.1 | 14        |
| 125 | Thermoelectric detection of spherical tin inclusions in copper by magnetic sensing. Journal of Applied Physics, 2000, 88, 6495-6500.                                    | 2.5 | 25        |
| 126 | On the thermoelectric magnetic field of spherical and cylindrical inclusions. Journal of Applied Physics, 2000, 87, 7481-7490.  | 2.5 | 37        |



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|-----|--|-----|-----------|
| 127 | Grain noise in interferometric detection of ultrasonic vibrations: Experimental study. , 1999, , .   |     | 1         |
| 128 | Experimental verification of the opposite effect of fluid loading on the velocity of dilatational waves in thin plates and rods. Journal of the Acoustical Society of America, 1999, 105, 3026-3034. | 1.1 | 5         |
| 129 | Experimental Investigation of the Grain Noise in Interferometric Detection of Ultrasonic Waves. Journal of Nondestructive Evaluation, 1999, 18, 139-147.   | 2.4 | 4         |
| 130 | 5. Acoustics and Ultrasonics. Experimental Methods in the Physical Sciences, 1999, , 161-221.  | 0.1 | 7         |
| 131 | On the Thermoelectric Effect of Interface Imperfections. , 1999, , 1487-1494.  |     | 5         |
| 132 | Ultrasonic Detection of Fatigue Cracks by Thermo-Optical Modulation. , 1999, , 1779-1786.  |     | 0         |
| 133 | Eddy Current Evaluation of Electrical Anisotropy in Polycrystalline Ti-6AL-4V. , 1999, , 1709-1716.  |     | 2         |
| 134 | Fatigue damage assessment by nonlinear ultrasonic materials characterization. Ultrasonics, 1998, 36, 375-381.  | 3.9 | 411       |
| 135 | Edge weld penetration assessment using the potential drop technique. NDT and E International, 1998, 31, 1-10.  | 3.7 | 4         |
| 136 | On the role of interface imperfections in thermoelectric nondestructive materials characterization. Applied Physics Letters, 1998, 73, 467-469.  | 3.3 | 35        |
| 137 | Simplified expressions for the displacements and stresses produced by the Rayleigh wave. Journal of the Acoustical Society of America, 1998, 104, 3107-3110.   | 1.1 | 8         |
| 138 | On the anomalously low attenuation of the leaky Rayleigh wave in a fluid-filled cylindrical cavity. Journal of the Acoustical Society of America, 1998, 104, 1246-1255.                              | 1.1 | 6         |
| 139 | Anisotropic grain noise in eddy current inspection of noncubic polycrystalline metals. Applied Physics Letters, 1998, 72, 1045-1047.   | 3.3 | 25        |
| 140 | Enhanced ultrasonic detection of fatigue cracks by laser-induced crack closure. Journal of Applied Physics, 1998, 83, 7453-7460.   | 2.5 | 40        |
| 141 | Thermo-Electric Detection of Early Fatigue Damage in Metals. , 1998, , 1573-1580.  |     | 5         |
| 142 | Experimental Observation of the Slow Squirting Mode in Solid/Fluid/Solid Trilayers. , 1998, , 169-176.   |     | 1         |
| 143 | Why fluid loading has an opposite effect on the velocity of dilatational waves in thin plates and rods. Journal of the Acoustical Society of America, 1997, 102, 3478-3483.                          | 1.1 | 11        |
| 144 | On the low-frequency oscillation of a fluid layer between two elastic plates. Journal of the Acoustical Society of America, 1997, 102, 3343-3348.  | 1.1 | 39        |

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|-----|---|-----|-----------|
| 145 | Excess attenuation of leaky Lamb waves due to viscous fluid loading. Journal of the Acoustical Society of America, 1997, 101, 2649-2658.                          | 1.1 | 57        |
| 146 | Circumferential creeping waves around a fluid-filled cylindrical cavity in an elastic medium. Journal of the Acoustical Society of America, 1997, 101, 2496-2503. | 1.1 | 26        |
| 147 | Edge Weld Penetration Assessment via Electric Current Deflection Measurements. , 1997, , 1199-1206.   |     | 0         |
| 148 | Feasibility of Fatigue Crack Detection in Fluid-Filled Cylindrical Holes Using Circumferential Creeping Waves. , 1997, , 43-50.                                   |     | 2         |
| 149 | Local variations of slow wave attenuation in air-filled permeable materials. Journal of the Acoustical Society of America, 1996, 99, 914-919.                     | 1.1 | 5         |
| 150 | Improved materials characterization by pressure-dependent ultrasonic attenuation in air-filled permeable solids. Applied Physics Letters, 1996, 68, 3707-3709.    | 3.3 | 14        |
| 151 | Effective ultrasonic transmission coefficient for randomly rough surfaces. Journal of the Acoustical Society of America, 1996, 100, 832-839.                      | 1.1 | 6         |
| 152 | Viscosity-induced attenuation of longitudinal guided waves in fluid-loaded rods. Journal of the Acoustical Society of America, 1996, 100, 1501-1508.              | 1.1 | 40        |
| 153 | General study of axisymmetric waves in layered anisotropic fibers and their composites. Journal of the Acoustical Society of America, 1996, 99, 931-941.          | 1.1 | 50        |
| 154 | Coherent and Incoherent Scattering Mechanisms in Air-Filled Permeable Materials. , 1996, , 129-136.   |     | 0         |
| 155 | Axisymmetric Waves in Layered Anisotropic Fibers and Composites. , 1996, , 275-282.   |     | 0         |
| 156 | Generalized formula for the surface stiffness of fluid-saturated porous media containing parallel pore channels. Applied Physics Letters, 1995, 67, 1827-1829.    | 3.3 | 12        |
| 157 | Longitudinal guided wave propagation in a transversely isotropic rod immersed in fluid. Journal of the Acoustical Society of America, 1995, 98, 454-457.          | 1.1 | 61        |
| 158 | Ultrasonic assessment of Poisson's ratio in thin rods. Journal of the Acoustical Society of America, 1995, 98, 2694-2701.   | 1.1 | 26        |
| 159 | Slow wave imaging of permeable rocks. Geophysical Research Letters, 1995, 22, 1053-1056.  | 4.0 | 10        |
| 160 | Identification of Distributed Fatigue Cracking by Dynamic Crack-Closure. , 1995, , 1979-1986.   |     | 7         |
| 161 | Excess Scattering Induced Loss at a Rough Surface Due to Partially Coherent Double-Reflection. , 1995, , 1845-1852.   |     | 0         |
| 162 | Surface Stiffness Measurements on Water-Saturated Porous Solids. , 1995, , 1425-1432.   |     | 0         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 163 | Novel Nondestructive Evaluation Techniques for Inertia-Friction Welds in a SiC-Reinforced High-Temperature Aluminum Alloy. , 1995, , 1545-1552.               |     | 1         |
| 164 | Increased incoherent backscattering from a liquidâ€“solid interface at the Rayleigh angle. Journal of the Acoustical Society of America, 1994, 96, 2537-2545. | 1.1 | 7         |
| 165 | Experimental measurements of surface stiffness on waterâ€“saturated porous solids. Journal of the Acoustical Society of America, 1994, 95, 828-835.           | 1.1 | 33        |
| 166 | Acoustic doubleâ€“reflection and transmission at a rough waterâ€“solid interface. Journal of the Acoustical Society of America, 1994, 95, 3242-3251.          | 1.1 | 15        |
| 167 | Leaky guided wave propagation along imperfectly bonded fibers in composite materials. Journal of Nondestructive Evaluation, 1994, 13, 137-145.                | 2.4 | 11        |
| 168 | Weep hole inspection by circumferential creeping waves. NDT and E International, 1994, 27, 131-142.   | 3.7 | 49        |
| 169 | Measurements of acoustic surface waves on fluid-filled porous rocks. Journal of Geophysical Research, 1994, 99, 17863-17869.                                  | 3.3 | 27        |
| 170 | Surface Roughness and Ultrasonic Materials Characterization. , 1994, , 79-86.   |     | 1         |
| 171 | Surface roughness and the ultrasonic detection of subsurface scatterers. Journal of Applied Physics, 1993, 73, 566-580.                                       | 2.5 | 60        |
| 172 | Slow wave propagation in airâ€“filled permeable solids. Journal of the Acoustical Society of America, 1993, 93, 3224-3234.                                    | 1.1 | 32        |
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