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Fracture Mechanics of Ceramics

Volume 3

Flaws and Testing

- Volume 1** **Concepts, Flaws, and Fractography**
- Volume 2** **Microstructure, Materials, and Applications**
- Volume 3** **Flaws and Testing**
- Volume 4** **Crack Growth and Microstructure**

PREFACE

These volumes, 3 and 4, of Fracture Mechanics of Ceramics constitute the proceedings of an international symposium on the fracture mechanics of ceramics held at the Pennsylvania State University, University Park, PA on July 27, 28, and 29, 1977. Volumes 1 and 2 were published previously as the proceedings of a symposium of the same name held July 11, 12, and 13, 1973, also at Penn State.

All four volumes published to date concentrate on the fracture aspects of the mechanical behavior of brittle ceramics in terms of the characteristics of cracks.

The program chairmen gratefully acknowledge the financial assistance for the symposium provided by the Office of Naval Research, the Energy Research and Development Administration, and the Army Research Office. Without their support the quality and magnitude of this conference simply would not have been possible.

Numerous individuals contributed to the success of the conference, but unfortunately they cannot all be listed here. However the program chairmen would especially like to recognize the contributions of Penn State Conference Coordinator, Mr. Ronald Avillion, whose expertise in planning and organization was indispensable; Dr. Fred R. Matson for his interesting after dinner speech; and Drs. A. M. Diness, J. C. Hurt, and D. W. Readey for their encouragement and valuable suggestions regarding the program.

Finally, we wish to also thank our joint secretaries for the patience and help in bringing these proceedings to press.

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INDEX

Pages 1-506 are found in Volume 3, pages 507-987 in Volume 4.

- Abrasive wear, 257
- Acoustic emission, 246, 719
- Alumina, 15, 22, 32, 186, 190, 237, 245, 257, 299, 379, 403, 451, 466, 476, 483, 495, 568, 607, 623, 651, 695, 725, 762, 800, 826, 838, 850, 908, 917
- Alumina-boron nitride, 855
- Alumina-hafnium oxide, 903
- Alumina-titania, 800
- Atomic lattice, 507
- Barium titanate, 688, 857
- Bend test, 183, 186-188, 191, 198, 247
- Benzene, 100
- Beryllium oxide, 800, 821
- Biaxial strength test, 36, 419, 725, 754
- Biaxial stress, 35, 82, 177, 435, 449
- Biological environment, 725
- Boron, 99
- Boron carbide, 99, 862, 885
- Boron oxide, 151
- Braze joints, 463
- Brazil (tensile) test, 764
- Calcium fluorite, 333, 865
- Calcium oxide, 741
- Carbon, 99
- Cement, 761
- Chlorine, 115
- Cleavage, 337
- Composites, 945, 961, 973
- Compression
 - microfracture, 245
 - testing, 403, 761
- Concrete, 762, 821
- Cone cracks, 208, 308, 349, 367
- Controlled flaws, 113, 211
- Coplanar strain energy, 33
- Corrosion
 - molten salt, 113
 - stress, 550, 581, 601, 652, 720
- Crack
 - blunting, 99
 - branching, 237
 - morphology, 254
 - subsurface, 276
- Crack density (bimodal), 8, 38, 67, 125, 143, 174, 289, 842
- Crack extension
 - criteria, 33, 55, 507
 - viscous drag effects, 553
 - See also Subcritical crack growth
- Creep, 99
- Cristobalite, 586, 717
- Critical stress intensity tests
 - ceramic braze, 463
 - controlled flaw, 495
 - double torsion, 190, 737
 - dynamic impact, 495
 - notched ring, 473
 - short-rod, 483
 - specimen for high temperature, 451
 - wedge-loaded double-cantilever, 451
- Cyclic fatigue, 670

- Damage threshold
 - impact, 309
- Delayed failure
 - See Subcritical crack growth
- Design diagrams, 23, 676, 721, 726
- Double cantilever beam test, 452, 641
- Double torsion test, 190, 202, 274, 291, 641, 687, 711, 737, 753, 923, 963
- Dynamic fatigue, 168, 678, 726, 761
- Dynamic fracture, 23, 208, 237, 495, 510
- Eccentricity of loading, 408
- Electrolytes, 556
 - solid, 651
- Epoxy-acrylate copolymer, 162
- Erosion, 303, 328, 379
- Ethylene vinyl acetate, 144, 164
- Eutectic microstructure, 903
- Failure criterion, 12, 33, 55, 67
- Fatigue
 - cyclic, 670
 - dynamic, 168, 678, 726, 761
 - static, 21, 156, 171, 577, 667, 726, 773, 787
 - thermal, 93
- Ferrites, 273
- Fiber glass, 581
- Fibers, 125, 143, 161, 581
- Fibrous fracture, 811
- Finite element method, 58, 473
- Flaw density relations
 - See Crack density
- Fracture mirror, 187, 199, 238, 239, 242
- Fracture statistics, 1, 31, 57, 61, 126, 183, 671
 - See also Weibull
- Fracture theories
 - lattice theories, 507
 - slow crack growth, 549
- Gadolinium oxide, 800
- Germanium, 381
- Glass, 143, 231, 258, 273, 361, 365, 395, 445, 468, 549, 572, 602, 682, 695, 761, 773, 787, 961, 973
 - alumino silicate, 234, 558, 776
 - barium silicate, 605
 - borosilicate, 349, 558, 793, 973
 - lead, 537, 570
 - lead alkali, 558
 - silicate, 123, 125, 144, 161, 206, 557
 - sodium alumino silicate, 776
 - sodium borosilicate, 933
 - sodium lime silicate, 22, 211, 221, 234, 264, 287, 349, 552, 602, 639, 667, 711, 761, 787, 792, 855, 962
- Glass ceramics, 190, 203, 745, 800
- Grain size effects, 852, 863
- Graphite, 16, 100, 436, 821, 917
- Griffith theory, 6, 63, 115, 507, 531, 663
- Grinding damage, 273
- Hafnium oxide, 801
- Hardness, 573
- Hertzian
 - cracks, 208, 266
 - elevated temperature fracture, 369
 - fracture, 208, 333
- Hugoniot relations, 303, 333
- Humidity, 549, 581, 585
- Hydrogen fluoride, 117
- Impact
 - angle of impingement, 303, 387
 - bending, 495
 - damage, 303, 349, 365
 - damage modes, 327
 - damage threshold, 309
 - elastic regime, 307
 - elastic/plastic regime, 320
 - elevated temperature studies, 367, 381, 495
 - energy losses, 373
 - exploding wire tests, 333

- Impact (cont'd)
 - particle, 210
 - photographic investigation, 349
 - plastic regime, 319, 361
 - TEM study, 373
- Inclusions, 945, 961
 - as flaws, 865
- Indenters, 205, 231
 - blunt, 208
 - flaw production, 444
 - sharp, 212
- Indentation fracture, 205, 231, 245, 257, 303, 335, 349, 365, 495
 - compressive microfracture, 245
 - crack types, 214
 - scratching, 257
 - single flaw interaction, 303, 444
 - strength degradation, 205, 231
 - tests, 205, 231, 245
- Internal stresses
 - See Residual stresses
- Iron, 511
- Krebs-Ringer solution, 725
- Lateral cracks, 213, 274, 308, 354, 373
- Lattice trapping, 507, 521
- Lead titanate, 688, 802
- Lead zirconate, 688
- Lead zirconate titanate, 476, 762, 858, 933
- Line tension of cracks, 951
- Machining, strength effects, 115
- Magnesium fluorite, 324, 862
- Magnesium oxide, 93, 186, 273, 306, 333, 381, 407, 741
- Magnesium oxide-silicon nitride, 114
- Magnesium oxide-titania, 800, 852
- Median cracks, 213, 257, 275
- Microcracking, 245, 257, 799, 821, 835, 854
- Microstructure, 25, 68, 86, 101, 113, 799, 849, 903, 921
- Microvoids, 85
- Molten salt corrosion, 113
- Multiaxial stress
 - See Polyaxial stress
- Multiple flaw model, 70
- Neutron scattering, 85
- Niobium oxide, 800, 852
- Nylon, 333
- Nylon bead impact, 338
- pH, effect on cracks, 553, 560
- Phase transitions, 802, 813, 857, 877
- Plastic
 - flow, 384, 569, 857
 - zone, 257, 307, 322, 335, 397, 484, 915
- Polyaxial stress, 4, 32, 177, 419, 435, 754
- Polyethylene, 135
- Polyvinylidene fluoride, 144
- Porcelain, 407, 605, 682, 711
- Porosity, 70, 85, 849, 913, 933
- Process zone, 551, 810, 821, 835
- Proof testing 24, 166, 672, 704, 722
- Quantum tunnelling, 507
- Quartz, 218, 343, 473, 802, 858
- Quasistatic indentation, 257, 319, 340, 380
- Radial crack, 308, 354, 368
- Refractory metals, 637
- Residual stresses, 214, 268, 687, 773, 787, 799, 863, 914, 947, 963
- Ring fracture, 342
- Rock salt, 335
- Sapphire, 252, 257, 299, 333, 606, 885
 - See also Alumina
- Scratches, 257, 273
- Second phases, 307, 803, 859, 945, 961, 973
- Silane, 164

- Silicon, 100, 381, 436, 927
Silicon carbide, 99, 113, 178,
381, 403, 435, 476, 495,
623, 804, 858, 878
Silicon nitride, 32, 70, 85,
113, 135, 177, 190, 318,
379, 403, 466, 476, 495,
623, 682, 737, 768, 811,
828, 856, 878, 917, 921
Slip bands, 335
Slow crack growth, 507, 537,
549, 597, 639, 651,
659, 687, 711, 725,
737, 745, 773, 787
Sodium, 115
Spinel, 324, 865, 885
Spin test, 177
Stainless steel, 630
Statistics
 See Fracture statistics
 See also Weibull
Strength degradation, 113, 143,
150, 205, 219, 231,
303, 325, 651
Strength-grain size relations,
863
Stress corrosion, 550, 581,
601, 652, 695, 711,
720
Stress induced phase transforma-
tion, 813, 877
Stress rupture, 99, 623
Subcritical crack growth
 See Slow crack growth
Sulfur, 115
Surface cracks (flaws), 17, 41,
55, 115, 143, 195, 208,
257, 273, 443
Tempered (tempering), 224, 231,
237, 773, 787
Thermal expansion differences,
803, 836
Thick films, 463
Threshold stress, 23, 55, 314
Titania, 800, 852
Titanium carbide, 891
Toluene, 186
Tungsten, 633
Tungsten carbide, 324, 333, 350,
403, 489, 868, 891
Tungsten carbide-cobalt, 307, 853
Twining, 245, 687, 853
Ultramicroscopy, laser, 581
Vapor transport crack blunting,
93
Vitrified grinding wheels, 682
Volume flaws, 186
Wallner lines, 644, 945, 965
Weibull, 1, 31, 51, 125, 145,
177, 189, 442, 671, 933
Yttrium oxide, 937
Zinc selenide, 855
Zinc sulfide, 318, 345, 473
Zircon, 804
Zirconia, 411, 466, 800, 828, 836,
855, 877, 907, 962

CONTENTS OF VOLUME 3

Contents of Volume 4	x
Fundamentals of the Statistical Theory of Fracture S. B. Batdorf	1
A General Approach to the Statistical Analysis of Fracture	31
A. G. Evans	
Application of the Four Function Weibull Equation in the Design of Brittle Components	51
P. Stanley, A. D. Sivill, and H. Fessler	
Multiple Flaw Fracture Mechanics Model for Ceramics . . .	67
H. A. Nied and K. Arin	
Analysis of Microvoids in Si_3N_4 Ceramics by Small Angle Neutron Scattering	85
P. Pizzi	
Crack Blunting in Sintered SiC	99
C. A. Johnson	
Alteration of Flaw Sizes and K_{IC} 's of Si_3N_4 Ceramics by Molten Salt Exposure	113
W. C. Bourne and R. E. Tressler	
Weibull Parameters and the Strength of Long Glass Fibers	125
W. D. Scott and A. Gaddipati	
Surface Flaws and the Mechanical Behavior of Glass Optical Fibers	143
W. E. Snowden	
Mechanical Behavior of Optical Fibers	161
B. K. Tariyal and D. Kalish	

Spin Testing of Ceramic Materials	177
G. G. Trantina and C. A. Johnson	
Effects of Specimen Size on Ceramic Strengths	189
G. K. Bansal and W. H. Duckworth	
Indentation Fracture and Strength Degradation in Ceramics	205
B. R. Lawn and D. B. Marshall	
Indentation Induced Strength Degradation and Stress Corrosion of Tempered Glasses	231
M. V. Swain, J. T. Hagan, and J. E. Field	
Compressive Microfracture and Indentation Damage in Al_2O_3	245
J. Lankford	
Microcracking Associated with the Scratching of Brittle Solids	257
M. V. Swain	
Crack Formation During Scratching of Brittle Materials . .	273
J. D. B. Veldkamp, N. Hattu, and V. A. C. Snijders	
Impact Damage in Ceramics	303
A. G. Evans	
Particle Impact Regimes in Single Crystals	333
S. V. Hooker and W. F. Adler	
A High-Speed Photographic Investigation of the Impact Damage in Soda-Lime and Borosilicate Glasses by Small Glass and Steel Spheres	349
M. M. Chaudhri and S. M. Walley	
Localized Impact Damage in a Viscous Medium (Glass) . . .	365
H. P. Kirchner and R. M. Gruver	
Erosion of Brittle Materials by Solid Particle Impact . .	379
B. J. Hockey, S. M. Wiederhorn, and H. Johnson	
Compression Testing of Ceramics	403
G. Sines and M. Adams	
The Strength of Ceramics Under Biaxial Stresses	435
G. Tappin, R. W. Davidge, and J. R. McLaren	