



Advances in Conservation Laws and Energy Release Rates: Theoretical Treatments and Applications

Yi-Heng Chen

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This book deals with some recent advances in conservation laws and energy release rates. Unlike their conventional applications in Fracture Mechanics for single crack problems, the contents of this book are mainly concerned with the conservation laws and energy release rates in some relatively complex problems, i. e., strongly interacting cracks, microcrack damage, and microcrack shielding problems in five kinds of materials, respectively. The five kinds of materials involve four traditional structural materials: brittle solids, metal-ceramic bi materials, anisotropic elastic solids, and dissimilar anisotropic solids; and one functional material: piezoelectric ceramics. Although this book starts from the original concepts of the J -integral, the M -integral, and the L -integral in single crack problems proposed by Eshelby (1956, 1970, 1975), Rice (1968a, b), Knowles and Sternberg (1972), Budiansky and Rice (1973), Berges (1974), Freund (1978), Cherepanov (1974, 1979), and Herrman and Herrman (1981), etc., the extension from investigations of single crack problems to those of multiple crack interacting problems or microcrack damage problems is based on the author's (and/or co-workers) works published in recent years. From detailed manipulations and numerical examinations the author would like to show readers some new insights of the conservation laws and energy release rates. Readers will see that although these 'old' concepts were established more than 30 or 40 years ago, they play a quite important role in multiple crack interacting problems or microcrack damage problems of both structural and functional materials.

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