



Analysis and Mechanics: Fourth International Conference on Fracture June 1977 University of Waterloo, Canada

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Analysis and Mechanics contains the proceedings of the Fourth International Conference on Fracture held at the University of Waterloo in Canada in June 1977. The conference provided a forum for discussing fracture mechanics and analysis involving a wide variety of materials, particularly large structures. Topics covered range from crack growth to dynamic processes and stress intensity factors, along with fracture in nonlinear systems.

Comprised of 64 chapters, this volume begins by describing a numerical approach for modeling stable crack growth and fracture criteria. The reader is then introduced to the continuum theory of dislocations and its application to fracture mechanics; initiation of crack propagation in ductile structures; and finite element analysis of an impact test. Subsequent chapters focus on stress and crack-displacement intensity factors in elastodynamics; plastic fracture analysis of a cracked cylinder under displacement controlled loading; energy considerations in dynamic crack propagation and arrest; and the use of the J integral to measure the resistance of mild steel to slow stable crack growth.

This book will be of interest to mechanical and structural engineers.

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