



**Mechanisms of Deformation and Fracture:
Proceedings of the Interdisciplinary Conference
Held at the University of Luleå, Luleå, Sweden,
September 20-22, ... and fracture of materials and
structures)**

Kenneth E. Easterling

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Mechanisms of Deformation and Fracture contains the proceedings of the Interdisciplinary Conference on the Mechanisms of Deformation and Fracture held at the University of Luleå in Sweden on September 20-22, 1978. The papers explore the mechanisms underlying deformation and fracture of materials such as pearlite, metals, quartz, soils, and rocks. Results of theoretical and experimental studies on topics ranging from electromagnetic detection of low-cycle fatigue to stress and strain distribution in two-phase systems are presented.

This book is comprised of 37 chapters and begins with a discussion on the interrelationships among solid mechanics, earth sciences, and material sciences. Subsequent chapters focus on the low-cycle behavior of case hardened steel; deformation and shear of normally consolidated flocculated kaolin; analytical modeling in inelasticity; creep mechanisms in clay; and initiation of crack growth at full plasticity. Plastic flow mechanisms and the rheological properties of the Earth's mantle are also examined, along with the fracture of glassy thermoplastics. The final chapter presents a thermodynamic model of consolidation in cohesive soils. This monograph will be a valuable resource for students and practitioners of mechanical engineering, metallurgy, materials science, and earth sciences.

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