

## Contents

### Preface

### Introduction and General Overview

*by J. Hult* ..... 1

### Formulation and Identification of Damage Kinetic Constitutive Equations

*by J. Lemaitre* ..... 37

### Anisotropic Aspects of Material Damage and Application of Continuum Damage Mechanics

*by S. Murakami* ..... 91

### Micromechanics of the Damage Processes

*by D. Krajcinovic and D. Sumarac* ..... 135

### Micromechanical Basis of Phenomenological Models

*by D. Krajcinovic* ..... 195

### Bounding Methods and Applications

*by F.A. Leckie* ..... 207

### Continuous Damage of Brittle Solids

*by J. Najjar* ..... 233