

Damage and Fracture Mechanics VIII

Computer Aided Assessment and Control

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COMPUTER AIDED ASSESSMENT AND CONTROL
IN DAMAGE AND FRACTURE MECHANICS
DAMAGE AND FRACTURE MECHANICS VIII

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Damage and Fracture Mechanics VIII

Computer Aided Assessment and Control

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Preface

The Eighth International Conference on Damage and Fracture Mechanics held at Crete, Greece in 2004 was the continuation of a successful series of conferences that have been held in Portsmouth, UK (1990), Southampton, UK (1992), Udine, Italy (1994), Fukuoka, Japan (1996), Bologna, Italy (1998), Montreal, Canada (2000), and Maui, USA (2002).

The conference has aimed to bring together both researchers and engineers to review and discuss the recent advances in the development of methods and approaches on Damage and Fracture Mechanics. This book contains papers, which were peer-reviewed and accepted for presentation at the conference and for inclusion in this volume.

It includes contributions presented on the following advanced topics:

- Fracture Mechanics and Fracture Criteria
- Experimental and Computational Methods
- Dynamic Fracture
- Stress and Failure Analysis
- Fatigue Damage Analysis
- Crack Growth Control
- Damage and Failure of Metallic and Non-Metallic Materials
- Failure in Composite Materials
- MEMS and Failure Analysis
- Industrial Applications and Case Studies

The Eighth International Conference on Damage and Fracture Mechanics was organized by the Wessex Institute of Technology, Southampton, U.K., in collaboration with Ryerson University, Toronto, Canada. The editors of this book are indebted to all the authors for their excellent contributions and thankful to the Members of the International Scientific Advisory Committee who promoted the conference and helped to review the papers submitted.

The Editors
Crete, 2004

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