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| Disciplina | 620 620.1 620.11 690.24 |
| Soggetti | Mechanics, Applied Solids Materials - Analysis Buildings - Repair and reconstruction Buildings - Maintenance Solid Mechanics Characterization and Analytical Technique Building Repair and Maintenance |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Classical and non-classical failure criteria -- Constitutive description of isotropic and anisotropic plasticity for metals -- Failure and damage in cellular materials -- Analytical methods of predicting performance of composite materials -- Analysis of failure in composite structures. |
| Sommario/riassunto | The papers in this volume present basic concepts and new developments in failure and damage analysis with focus on advanced materials such as composites, laminates, sandwiches and foams, and also new metallic materials. Starting from some mathematical foundations (limit surfaces, symmetry considerations, invariants) new experimental results and their analysis are shown. Finally, new concepts for failure prediction and analysis will be introduced and |

discussed as well as new methods of failure and damage prediction for advanced metallic and non-metallic materials. Based on experimental results the traditional methods will be revised.
