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The damage models are based on the principles of continuum damage mechanics and the effective stress concept. Several books have appeared recently on damage mechanics but are mostly theoretical in nature. Alternatively, this book provides a complete finite element program that includes the effects of damage. The book consists of two parts.

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Particular emphasis is laid on programming the finite element

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method to incorporate applications of damage mechanics. This textbook for graduates and researchers in civil, mechanical, aerospace engineering and materials science deals with the practical applications of damage mechanics, which have not appeared before in the literature. The book contains research on the separation of voids and cracks in continuum damage mechanics.

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Creep crack simulations using continuum damage mechanics and extended finite element method VB Pandey, I V Singh, BK Mishra, S Ahmad, AV Rao, Vikas Kumar Jan 2019 - Vol 28 , Issue 1

International Journal of Damage Mechanics: SAGE Journals

For damage evaluation, both local and nonlocal approaches are employed. The accuracy of the extended finite element method solutions is checked by comparing with experimental results and finite element solutions. These results show that the extended finite element method requires a much coarser mesh to effectively model crack propagation.

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Unified Mechanics Theory - Finite Element Modeling on ...

Eduardo de Souza Neto is a senior lecturer at the School of Engineering, University of Wales, Swansea, where he teaches a postgraduate course on the finite element method, and undergraduate courses on structural mechanics and soil mechanics. He also currently teaches external courses on computational plasticity; and his research interests include, amongst others, damage mechanics ...

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