

Advances in numerical modelling of adhesive joints

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Abstrak

This book deals with the most recent numerical modeling of adhesive joints. Advances in damage mechanics and extended finite element method are described in the context of the finite element method with examples of application. The book also introduces the classical continuum mechanics and fracture mechanics approach and discusses the boundary element method and the finite difference method with indication of the cases they are most adapted to. At the moment there is no numerical technique that can solve any problem and the analyst needs to be aware of the limitations involved in each case.