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Biography. Research work focuses on broad theoretical and applied aspects of computational mechanics. Specific areas include: Computational failure mechanics; Nonlinear dynamics; Computational inelasticity; High-performance finite elements; Arbitrary Lagrangian-Eulerian (ALE) methods; Coupled problems; Integration algorithms in fluid mechanics

## **Francisco Armero | Civil and Environmental Engineering**

Introduction. This paper presents a new stabilized mixed finite element method for computational inelasticity. The idea of developing stabilized methods for application in computational solid mechanics was motivated by the success of stabilized methods in the arena of computational fluid dynamics.

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