

Università degli Studi di Pavia

Dipartimento di Meccanica Strutturale

In collaborazione con

Centro di Simulazione Numerica Avanzata – CeSNA

Istituto Universitario di Studi Superiori

On the sensitivity of finite elements to mesh distortions

Sensitivity of numerical results to mesh distortions is a frequently discussed issue in finite element technology. One crucial question is how to measure such sensitivity. A newly developed "Distortion Patch Test", based on eigenvalue analyses of system matrices, is presented. As an example, some four-node plane stress finite elements are compared with respect to their distortion sensitivity. Results are surprising

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