

A NEW METHOD FOR TRANSIENT ANALYSIS

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ABSTRACT

In this paper, a coupled Diffuse Element - Finite Element method (DEM-FEM) for transient coupled-field analysis is proposed. The method combines the standard finite element method (FEM) and a diffuse element technique (DEM), also called Element-Free Galerkin Method. The resulting approach takes advantage of the capabilities of these numerical techniques.

REFERENCES

1. Simionov, M. *Metode numerice in transfer de căldură și masa*, Editura Evrika, Braila, 1998.
2. Simionov, M., Simionov, L.C. *Metode numerice in transfer de căldură și masa. Aplicații*, Editura Mongabit, Galați, 1999.
3. Zienkiewicz, O.C., Taylor, R.L. *The Finite Element Method*, McGraw-Hill, London, 1989.