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By
Dean Updike

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Topics in Boundary Element Research C. A. Brebbia, 2013-11-11 As the Boundary Element Method develops into a tool of engineering analysis, more effort is dedicated to studying new applications and solving different problems. This book contains chapters on the basic principles of the technique, time-dependent problems, fluid mechanics, hydraulics, geomechanics, and plate bending. The number of non-linear and time-dependent problems which have become amenable to solution using boundary elements have induced many researchers to investigate in depth the basis of the method. Chapter 0 of this book presents an approach based on weighted residual and error approximations which permits easy construction of the governing boundary integral equations. Chapter I reviews the theoretical aspects of integral equation formulations with emphasis in their mathematical aspects. The analysis of time-dependent problems is presented in Chap 2 which describes the time and space dependent integral formulation of heat conduction problems and then proposes a numerical procedure and time marching algorithm. Chapter 3 reviews the application of boundary elements for fracture mechanics analysis in the presence of thermal stresses. The chapter presents numerical results and the considerations on numerical accuracy are of interest to analysts as well as practising engineers. **Subject Guide to Books in Print**, 1996 Solutions Manual :

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