



Boris F. Shorr

The Wave Finite Element Method

Series: Foundations of Engineering Mechanics

- A new more efficient and accurate Finite Element Method for structural analysis is presented in this scientific monograph

Computational mechanics, as a science employed for the numerical modeling of processes in nature and engineering, has over the last few decades developed two strands. The first concerns the putting of more and more powerful software packages into computational practice, using increasingly high-performance computers with increasingly large memory. The traditional finite element and finite difference approaches are still prevalent. Over the years however, researchers have met with new problems; their solutions on the basis of traditional methods are at best difficult and at worst impossible to obtain. Such problems provided a powerful impetus in the development of the second strand, resulting in the development of essentially new approaches for numerical modeling, for example meshless methods, "molecular" dynamics, neuron networks. The current state of the art formed the basis of many papers presented at the Fifth World Congress on Computational Mechanics, Vienna 2002. It is within the framework of the second strand that this book has been written.

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