



V.M.A. Leitao, C.J.S. Alves, C. Armando Duarte (Hrsg.)

Advances in Meshfree Techniques

Reihe: Computational Methods in Applied Sciences

- Collects state-of-the-art research on the subject of mesh reduction techniques
- Valuable reference for researchers interested in the field of mesh reduction techniques
- Aims at promoting the application of mesh reduction techniques to a wide variety of engineering and science problems
- Covers a variety of mesh reduction techniques -- one of the most active research areas in computational mechanics

In recent years meshless/meshfree methods have gained a considerable attention in engineering and applied mathematics. The variety of problems that are now being addressed by these techniques continues to expand and the quality of the results obtained demonstrates the effectiveness of many of the methods currently available. The book presents a significant sample of the state of the art in the field with methods that have reached a certain level of maturity while also addressing many open issues. The book collects extended original contributions presented at the first ECCOMAS Conference on Meshless Methods held in 2005 in Lisbon. The list of contributors reveals a mix of highly distinguished authors as well as quite young but very active and promising researchers, thus giving the reader an interesting and updated view of different mesh reduction methods and its range of applications. The material presented is appropriate for researchers, engineers, physicists, applied mathematicians and graduate students interested in this active research area.

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