

Hybrid modeling and optimization of manufacturing: combining artificial intelligence and finite element method

Quiza, Ramon, author

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Abstrak

Artificial intelligence (AI) techniques and the finite element method (FEM) are both powerful computing tools, which are extensively used for modeling and optimizing manufacturing processes. The combination of these tools has resulted in a new flexible and robust approach as several recent studies have shown. This book aims to review the work already done in this field as well as to expose the new possibilities and foreseen trends.