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basis functions. In our discussion, we used piecewise linear basis functions, but it is also common to...

Finite element method - Wikipedia

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The finite element method is a numerical method that can be used for the accurate solution of complex engineering problems.

Although the origins of the method can be traced to several centuries ago, the

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method as currently used was originally presented by Turner, Clough, Martin, and Topp in 1956 in the context of the analysis of aircraft structures.

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The finite element method is a powerful technique

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Originally developed for numerical solution of complex problems in structural mechanics, and it remains the method of choice for complex systems. In the FEM, the structural system is modeled by a set of

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appropriate finite elements interconnected at discrete points called nodes.

Elements may have physical properties such as thickness, coefficient of thermal expansion, density, Young's modulus, shear

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modulus and Poisson's ratio.

Finite element method in structural mechanics - Wikipedia

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tool in the industry. The Finite Element Method is a powerful technique to solve complex structural problems. The technological progress of both software and hardware allows us today to analyse complex models that

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coined by Clough in 1960. In the early 1960s, engineers used the method for approximate solutions of problems in stress analysis, fluid flow, heat transfer, and other areas. - The first book on the FEM by

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*Finite Element Method -
Massachusetts Institute of
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A new finite element solution method for the analysis of frictional contact problems is presented. The contact problem is solved by imposing geometric constraints on the pseudo

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Finite Element Methods in Engineering - Cranfield University

The finite element method is used in the field of solid and structural mechanics.

Various types of problems solved by the finite element

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method in this field include the elastic, elastoplastic, and viscoelastic analysis of trusses, frames, plates, shells, and solid bodies.

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The chosen finite element model was validated by comparing its results with corresponding experimental results of deformation shapes (cross-sectional distortion in Fig.3, local dimpling of crests and high

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stress concentrations including longitudinal membrane action and yielding around the fastener holes in Fig.4), pull-through and dimpling failure loads and load-deflection curves (Fig.5).

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