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Practical Finite Element Analysis Hardcover – International Edition, January 1, 2008 by Nitin S Gokhale, (Author), Anand N Thite Sanjay S Deshpande, Sanjeev V Bedekar (Author) 4.6 out of 5 stars 3 ratings

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Finite element method - Wikipedia

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(2001) Analysis of completely discrete finite element method for a free boundary diffusion problem with absorption. *Journal of Computational and Applied Mathematics* 134 :1-2, 143-164. (1999) Postprocessing the Galerkin Method: The Finite-Element Case.

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The latter feature will be highlighted by solving the practical problem of a shallow tunnel excavation constructed using the principles of the NATM. It is shown that the development of plastic shear strains leading to a failure mechanism that involves shear banding is realistically predicted by the proposed formulation.

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For the layperson, finite element analysis is a method for using a computer to estimate internal forces in a part to determine if it will be able to do its intended job without breaking. The image of the benches shows an example of FEA in 3D - and demonstrate a great example of interdisciplinary collaboration in action.

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