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 Bell, R.W., Houlby, G.T. and Burd, H.J. (1993) "Suitability of Two and Three Dimensional Finite Elements for Modelling Material Incompressibility Using Exact Integration" Communications in Numerical Methods in Engineering, Volume 9, No.4 ...

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Abstract. Finite element analysis is a widely accepted tool used in many industries and research activities. It allows new designs to be thoroughly 'tested' before a prototype is even manufactured, components and systems which cannot readily be experimented upon to be examined, and 'diagnostic' investigations to be undertaken.

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An axisymmetric finite element analysis of the mechanical function of the meniscus. International Journal of Sports Medicine, 1984, 5, 93-95. 33. Tissakht, M., Ahmed, A. M., Tanzer, M. and Misra, A. K. The thickness of the articular cartilage affects the load-bearing characteristics of the menisci. Transactions of the 40th Annual Meeting ORS ...

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The Finite Element Method: Theory, Implementation, and ...
 Conceived as a structural analysis tool, finite element analysis is now a key ingredient of any mechanical CAD system. More generally the method can be viewed as a discretization technique for solving partial differential equations and as such it has found application in many other areas including fluid flow, lubrication, seepage, electromagnetic fields, heat transfer, biomechanics and others.

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The finite element method is the most widely used method for solving problems of engineering and mathematical models.

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