



Article

On Hierarchical Applications of Finite Element Methods and Classical Applied Mechanics Approaches for Complex Structures

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Abstract: In this paper, hierarchical studies based on both analytical and computational approaches have been employed to validate and improve current structural designs of mud holding tanks for hydraulic fracturing in petroleum industries. Through detailed comparisons at different levels of approximations for both real world complex structural design problem and a simplified stiffened plate with extreme geometrical aspect ratios, proper design procedures have been reiterated and validated. It is highly recommended that low-dimensional structures with emphasis on classical mechanics principles should be considered before full-fledged three-dimensional computational analyses. Both Castigliano's Theorems and Galerkin methods are utilized along with simulation packages such as ADINA and Solidworks. The hierarchical approximation procedures reemphasize important subjects such as planes and shells, strength of materials, structural mechanics, asymptotic and perturbation analysis no longer required in some engineering programs, yet often necessary for the study of complex three-dimensional structural systems.

Keywords: finite element method; hierarchical; stiffener; buckling; multi-scale modeling



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1. Introduction

In today's engineering practice, analyses of very complex systems are frequently studied based on various finite element methods (FEM) and computational fluid dynamics (CFD) tools. The sophistication of these simulation packages and their direct connections with solid modeling and engineering graphics tools have inadvertently left false impressions among design engineers that the fundamentals of solid and fluid mechanics are no longer needed. In fact, some of the design engineers tend to utilize simulation packages right at the beginning stage of the design process at which the entire system and its geometries and configurations are still not finalized. As a consequence, the intricate design details and specifics which are not finalized will be entangled with the complication of meshing and multi-scale issues for both FEM and CFD analyses. In a way, this is very similar to applying high resolution or magnification lenses during preliminary search within a fairly large area, which is obviously very ineffective, inefficient, and wasteful with respect to both time and financial resources.

Wichita Tank Manufacturing LTD presented the McCoy School of Engineering with a design concern with respect to their 500 fluid barrel (BBL) holding tanks for hydraulic fracturing, as shown in Figure 1. In the United States of America, most fluid barrel apart from oil barrel has the following conversion ratio, namely, 1 BBL is equivalent to 119 liters (L) or 31.5 gallons. Initially, these tanks were designed to hold up to 15,750 gallons of water. While it is empty, the tank will be transported through highway systems to and from different locations. The problem is to determine whether or not it is safe to hold

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AIAA Journal American Institute of Aeronautics and Astronautics, 2000 Journal of Thermophysics and Heat Transfer ,1999 Subject Guide to Books in Print ,1993 **Materials Research and Standards** ,1967 **The Aeronautical Journal** ,1999 **Nonlinear Finite Elements for Continua and Structures** Ted Belytschko, Wing Kam Liu, Brian Moran, 2000-10-03 Nonlinear Finite Elements for Continua and Structures Ted Belytschko Wing Kam Liu Brian Moran Northwestern University Evanston Illinois This book provides a comprehensive description of the major methodologies of nonlinear finite element analysis for solid mechanics as applied to continua and structures Treatment of the subject is integrated in such a way that the reader can gain an understanding of the fundamental methods a feeling for the comparative usefulness of different approaches and an appreciation of the difficulties inherent in nonlinear analysis In depth coverage of the following is given Lagrangian and arbitrary Lagrangian Eulerian treatments of continua many of the material laws used in today s software and research solution methods including explicit and implicit time integration methods and methods for equilibrium problems basic concepts such as stability and smoothness and techniques such as linearization and regularization methods for shells and structures contact impact problems element technology including multi field elements Ideal for self study no other book provides such a comprehensive description of nonlinear finite element analysis for solid mechanics This is an invaluable reference not only for final year undergraduates postgraduates academics and engineers working on sophisticated finite element software and in the field of solid mechanics but also for all users of nonlinear finite element programs **Choice** ,2004

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