

Second-order effects on the wave propagation in finite elasticity

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Abstract

In this paper, for arbitrary sufficiently small deformations, the propagation of the acceleration waves in isotropic and homogeneous materials is discussed in the context of second-order elasticity by using a perturbation method. This method allows us to determine the first-order terms of the speeds as well as the amplitudes both of the principal waves and the waves in any arbitrary direction of propagation, when the undisturbed region is subjected to an arbitrary deformation. Finally, some numerical results are presented in some conventional Mooney-Rivlin materials.

Keywords: Acceleration waves, nonlinear elasticity, perturbation method, second-order effects, principal waves.

AMS Subject Classification: 74B20, 74J30

1. Introduction.

The study of the propagation of acceleration waves in nonlinear, elastic, isotropic, and homogeneous media, has been, and remains, a topic of great interest in many areas of the physical sciences. However, general results in finite elasticity have only been obtained for *principal waves*, i.e., for the ordinary waves which propagate along the *principal axes of strain* (see [1], [2] which contain detailed references to other contributions). These waves, when they exist, can only be longitudinal or transverse, and if the form of the stress relation is known, then *Ericksen's formulae* supply the unique value of their speeds. Conversely, if these speeds are known functions of the three principal stretches, for example by experiments, then the response coefficients are uniquely determined. All that supplies the first simple and definite connection between the existence of principal waves and physically reasonable static response of an elastic isotropic material in finite deformations (see [1] p.278-294).

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M.A. Bradford, R.Q. Bridge, S.J. Foster



Second Order Effects In Elasticity Plast:

Mechanics of Structures and Materials M.A. Bradford,R.Q. Bridge,S.J. Foster,1999-01-01 Structural mechanics in Australasia is the focus of the some 100 papers but among them are also contributions from North America Japan Britain Asia and southeast Asia

Steel Designers' Manual SCI (Steel Construction Institute),2016-06-27 In 2010 the then current European national standards for building and construction were replaced by the EN Eurocodes a set of pan European model building codes developed by the European Committee for Standardization The Eurocodes are a series of 10 European Standards EN 1990 EN 1999 that provide a common approach for the design of buildings other civil engineering works and construction products The design standards embodied in these Eurocodes will be used for all European public works and are set to become the de facto standard for the private sector in Europe with probable adoption in many other countries This classic manual on structural steelwork design was first published in 1955 since when it has sold many tens of thousands of copies worldwide For the seventh edition of the Steel Designers Manual all chapters have been comprehensively reviewed revised to ensure they reflect current approaches and best practice and brought in to compliance with EN 1993 Design of Steel Structures the so called Eurocode 3

Plastic Design and Second-Order Analysis of Steel Frames Wai Fah Chen,I. Sohal,1994-12-16 Plastic Design of Steel Frames assesses the current status and future direction of computer based analyses of inelastic strength and stability for direct frame design It shows how design rules are used in practical frame design and provides an introduction to the second order theory of inelastic frame design The book includes two computer programs on a diskette one for the first order analyses and the other for the second order plastic hinge analysis of planar frame design The second order program can be used to predict realistic strengths and stabilities of planar frames thereby eliminating the tedious task of estimating factors for individual member capacity checks Both programs include clear input instructions The diskette also contains the Fortran source code listing for the second order plastic hinge analysis enabling the user to customize the program The programs will run on an IBM PC AT or equivalent machine with 640 kB of memory and 30 MB hard drive

Structural Engineering, Mechanics and Computation A. Zingoni,2001-03-16 Following on from the International Conference on Structural Engineering Mechanics and Computation held in Cape Town in April 2001 this book contains the Proceedings in two volumes There are over 170 papers written by Authors from around 40 countries worldwide The contributions include 6 Keynote Papers and 12 Special Invited Papers In line with the aims of the SEMC 2001 International Conference and as may be seen from the List of Contents the papers cover a wide range of topics under a variety of themes There is a healthy balance between papers of a theoretical nature concerned with various aspects of structural mechanics and computational issues and those of a more practical nature addressing issues of design safety and construction As the contributions in these Proceedings show new and more efficient methods of structural analysis and numerical computation are being explored all the time while exciting structural materials such as glass have recently come

onto the scene Research interest in the repair and rehabilitation of existing infrastructure continues to grow particularly in Europe and North America while the challenges to protect human life and property against the effects of fire earthquakes and other hazards are being addressed through the development of more appropriate design methods for buildings bridges and other engineering structures **Understanding Structural Engineering** Wai-Fah Chen, Salah El-Din E.

El-Metwally, 2011-05-24 In our world of seemingly unlimited computing numerous analytical approaches to the estimation of stress strain and displacement including analytical numerical physical and analog techniques have greatly advanced the practice of engineering Combining theory and experimentation computer simulation has emerged as a third path for engineering **Advanced Analysis of Steel Frames** W.F. Chen, 2018-01-18 The development of the limit state approach to design in recent years has focused particular attention on two basic requirements accurate information regarding the behavior of structures throughout the entire range of loading up to the ultimate strength and simple practical procedures to enable engineers to assess this behavior This book satisfies these requirements by providing practical analysis methods for the design of steel frames The book contains a wide range of second order analyses from elastic to inelastic rigid to semi rigid connections and simple plastic hinge method to sophisticated plastic zone method Computer programs for each analysis are provided in the form of a floppy disk for easy implementation Sample problems are described and user s manuals are well documented for each program developed in the book **Summary Report on Deformation and Energy Absorption Capacity** Theodore V. Galambos, 1967 **Fourth International Colloquium on Structural Stability, Mediterranean Session** , 1991 **Engineering Journal** , 2007 Advanced Analysis for Three-Dimensional Semi-Rigid Steel Frames subjected to Static and Dynamic Loadings Phu-Cuong Nguyen, 2023-05-26 Doctoral Thesis Dissertation from the year 2014 in the subject Engineering Civil Engineering grade 9 course Advanced Steel Structures language English abstract This dissertation presents three various advanced analysis approaches which can capture accurately and efficiently the ultimate strength and behavior of steel framed structures with nonlinear beam to column connections subjected to static and dynamic loadings Three major sources of nonlinearity are considered in the analyses as follows 1 material nonlinearity 2 geometric nonlinearity and 3 connection nonlinearity Three types of nonlinear beam column element formulation considering both geometric and material nonlinearities are coded into two nonlinear structural analysis programs 1 Nonlinear Structural Analysis Program NSAP 2 D plastic zone finite element 2 Practical Advanced Analysis Program PAAP 3 D refined plastic hinge element and 3 D plastic fiber element Three types of steel frames analyzed by the proposed program are 1 rigid frames beam to column connections are fully rigid 2 linear semi rigid frames beam to column connections have constant stiffness and 3 nonlinear semi rigid frames beam to column connections have continuously variable stiffness Three types of analysis can be performed are 1 nonlinear inelastic static analysis 2 nonlinear elastic and inelastic time history analysis and 3 free vibration analysis Three main resources of damping are taken into account in the proposed programs are 1 hysteretic

damping due to inelastic material 2 structural viscous damping employing Rayleigh damping 3 hysteretic damping due to nonlinear beam to column connections Two computer programs are developed 1 Nonlinear Structural Analysis Program NSAP written in the C programming language 2 Practical Advanced Analysis Program PAAP written in the FORTRAN 77 programming language They are verified for accuracy and computational efficiency by comparing predicted results with those generated by the commercial finite element analysis packages of ABAQUS and SAP2000 and other results available in the literature Through several numerical examples the proposed program PAAP proves to be a reliable and efficient tool for daily practice design in lieu of using costly and time consuming commercial software *The Behaviour and Design of Steel Structures* N. S. Trahair, M. A. Bradford, 1988 **A history of the theory of elasticity and of the strength of materials, ed. and completed by K. Pearson. 2 vols. [in 3 pt.].** Isaac Todhunter, 1893 Civil Engineering Practice: Structures Paul N. Cheremisinoff, Nicholas P. Cheremisinoff, Su Ling Cheng, 1987 **Drain-2DX** Rakesh Allahabadi, 1987 Proceedings of the Institution of Civil Engineers, 2009 **Stability and Ductility of Steel Structures** M. Iványi, 2002 Papers from a September 2002 meeting summarize progress in theoretical and experimental research in the stability and ductility of steel and other metal structures with special emphasis given to new concepts of analysis design rules and recommendations in recent national and international design specification codes Some themes include bridges and special problems composite structures and earthquake and fire The editor teaches structural engineering at Budapest University of Technology and Economics The book is distributed in the US by ISBS Annotation c 2003 Book News Inc Portland OR booknews com **A History of the Theory of Elasticity and of the Strength of Materials** Isaac Todhunter, 1893 **Plastic Analysis and Design of Plates, Shells and Disks** M. A. Save, Charles Ernest Massonnet, 1972 A History of the Theory of Elasticity and of the Strength of Materials: pts. 1-2. Saint-Venant to Lord Kelvin Isaac Todhunter, 1893 **Handbuch der Physik: Elastizität und Plastizität** Siegfried Flügge, 1955

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