

## Second-order effects on the wave propagation in finite elasticity

Addolorata Marasco

*Department of Mathematics and Applications "R. Caccioppoli"  
University of Naples Federico II, Via Cintia, 80126, Naples, Italy  
marasco@unina.it*

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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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# Second Order Effects In Elasticity Plast

**Roman Wölfel**



## **Second Order Effects In Elasticity Plast:**

Plastic Design and Second-Order Analysis of Steel Frames W.F. Chen, I. Sohal, 2013-12-20 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 *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 **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 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

**Behaviour and Design of Steel Structures to AS4100** Nick Trahair,Mark A Bradford,2017-12-21 The behaviour of steel structures and the criteria used in their design are set out in detail in this book The book bridges the gap between the methods of analysis and the sizing of structural components The basis of the limit state design criteria of the latest Australian code for structural steel are explained and the reader is pointed to the relevant provisions of the code

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

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

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Plasticity, Limit Analysis, Stability And Structural Design: An Academic Life Journey From Theory To Practice Wai-fah Chen,2021-01-22 This book is a personal anthology of the author s utmost academic works and accomplishments with his former students and colleagues intended as an enduring record for the engineering community for many years to come The author s forty year professional career and

academic life journey is first briefly sketched in Chapter 1 and more details are elaborated in three chapters that follow Chapter 2 The first ten years at Lehigh beginning to show Chapter 3 Twenty three years at Purdue the highly productive years and Chapter 4 seven years at UH the pursuit of excellence The author s specific academic contributions are documented in the following three chapters Chapter 5 23 academic bulletins are selected to highlight his 10 major research areas Chapter 6 23 Academic masterpiece books are listed along with their respective peer review comments and Chapter 7 academic publications include journal articles conference proceedings and symposiums and lectures and keynotes The book ends with the listing of all the author s 55 doctoral students dissertation titles in Chapter 8 In 1975 at Lehigh the author published a milestone treatise on Limit Analysis and Soil Plasticity In 1982 at Purdue he published another pioneering work on Plasticity in Reinforced Concrete In September 1999 the author was recruited by UH to take the Deanship of the College of Engineering to accomplish the noble mission to build the College to become one of the top 50 engineering schools by strengthening the faculty improving the facilities and increasing the enrollment Over his seven years at UH a lot of progress was made in all these three areas the research program expanded facilities improved and enrollment increased Related Link

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**Stability Design of Semi-Rigid Frames** W. F. Chen, Yoshiaki Goto, J. Y. Richard Liew, 1995-12-12 Semi rigid steel frames are revolutionizing structural design This book is a practical professional reference covering analytical methods for the evaluation of connection flexibility and its influence on the stability of the entire framework The methods range from a simplified member by member design approach to a more sophisticated computer based advanced analysis and design approach **Dynamic Models for Structural Plasticity** William J. Stronge, Tongxi Yu, 2012-12-06 Our topic is irreversible

or plastic deformation of structural elements composed of relatively thin ductile materials. These deformations are commonly used in sheet metal forming operations to produce lightweight parts of any particular shape. In another context, this type of plastic deformation is described as impact damage in the case of structural components involved in collision. Here we are concerned with mechanics of both static and dynamic deformation processes. The purpose is to use typical material properties and structural characteristics to calculate the deformation for certain types of load, in particular to find the final deflection and shape of the deformed structure and to illustrate how the development of this final shape depends on the constitutive model used to represent the material behavior. The major issue to be addressed is which structural and constitutive properties are important for calculating response to either static or brief but intense dynamic loads. Furthermore, how do the results of various constitutive models compare with observed behavior.

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**Constructional Steel Design** P.J. Dowling, Professor J E Harding, R. Bjorhovde, E.

Martinez-Romero, 2005-12-20 This book consists of the papers presented at the First World Conference on Constructional Steel Design held in Acapulco, Mexico, December 1992. The Conference provided a forum for presentation and discussion by designers and research workers involved with steel construction.

**Proceedings of the Third International Conference on Coupled Instabilities in Metal Structures** Dinar Camotim, Dan Dubina, Jacques Rondal, 2000 The subject of coupled instabilities is a fascinating field of research with a wide range of practical applications, particularly in the analysis and design of metal structures. Despite the excellent body of existing results concerning coupled instability structural behaviour, this situation has not yet been adequately translated into design rules or specifications. In fact, only to a small extent do modern design codes for metal structures take advantage of the significant progress made in the field. This book, which contains all the invited general reports and selected papers presented at the Third International Conference on Coupled Instabilities in Metal Structures (CIMS 2000), should provide a meaningful contribution towards filling the gap between research and practice.

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**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

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