

# Basic Solutions of Three Dimensional Elasticity

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**Abstract.** Elastic calculation method is an important research content of computational mechanics. The problems of elasticity include basic equations and boundary conditions. Therefore, the final solution consists of the general solutions of the basic equations and the special solutions satisfying the boundary conditions. Numerical method is often used in practical calculation, but the analytical solution is also an important subject for researchers. In this paper, the basic solution of three-dimensional elastic materials is given by theoretical derivation.

## 1 Introduction

Elasticity mainly studies the deformation and internal force of elastic objects under the action of external forces and other external factors [1-3]. Saint Venant's principle is the most commonly used method of elasticity, and its correctness has been fully verified. According to Saint Venant's principle, the boundary conditions can be replaced by equivalent loads, which makes the problem greatly simplified. However, the Saint Venant solution can only satisfy the average boundary conditions, ignoring the local effect, so it is an approximate solution. In many practical problems, researchers often ignore the local effect solution and only care about the overall effect of load on materials and structures. However, for some special cases, such as stress concentration caused by temperature or displacement constraints, the stress is not uniformly distributed, and the local solution plays a key role [4-6].

In this paper, on the basis of fully studying the traditional theory of elasticity, the dual form equations of three dimensional elastic body are constructed by using the methods of separation of variables and variational principle. Thus, the basic problem of elasticity is transformed into the solution of eigenvalues and general eigenvectors. Through strict theoretical derivation, we get the all eigenvectors in analytical form, and establish the closed form basic solution space composed of each order solution vectors, which provides a reliable basis for the numerical calculation of further engineering problems.

## 2 Solution method

A common calculation model of cylinder in elasticity. The displacement and stress components of elastic cylindrical solution can be described as follows

$$\begin{aligned}\bar{u} &= M_{1j} (C_j J_{n+1} + C_{j+3} Y_{n+1}) + N_{1j} (C_j J_n + C_{j+3} Y_n) \\ \bar{v} &= N_{2j} (C_j J_n + C_{j+3} Y_n) + K_{2j} (C_j J_{n+1} + C_{j+3} Y_{n+1}) \\ \bar{w} &= N_{3j} (C_j J_n + C_{j+3} Y_n) + K_{3j} (C_j J_{n+1} + C_{j+3} Y_{n+1})\end{aligned}\quad (1)$$

and

$$\begin{aligned}\bar{p}_1 &= N_{4j} (C_j J_n + C_{j+3} Y_n) + K_{4j} (C_j J_{n+1} + C_{j+3} Y_{n+1}) \\ \bar{p}_2 &= N_{5j} (C_j J_n + C_{j+3} Y_n) + K_{5j} (C_j J_{n+1} + C_{j+3} Y_{n+1}) \\ \bar{p}_3 &= M_{6j} (C_j J_{n+1} + C_{j+3} Y_{n+1}) + N_{6j} (C_j J_n + C_{j+3} Y_n)\end{aligned}\quad (2)$$

Respectively. Using the generalized variable method, we get

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# Three Dimensional Elasticity Three Dimensional Elasticity

**RJ Shavelson**



### **Three Dimensional Elasticity Three Dimensional Elasticity:**

**Mathematical Elasticity** Philippe G. Ciarlet, 2022-01-22 The first book of a three volume set Three Dimensional Elasticity covers the modeling and mathematical analysis of nonlinear three dimensional elasticity It includes the known existence theorems either via the implicit function theorem or via the minimization of the energy John Ball s theory An extended preface and extensive bibliography have been added to highlight the progress that has been made since the volume s original publication While each one of the three volumes is self contained together the Mathematical Elasticity set provides the only modern treatise on elasticity introduces contemporary research on three dimensional elasticity the theory of plates and the theory of shells and contains proofs detailed surveys of all mathematical prerequisites and many problems for teaching and self study These classic textbooks are for advanced undergraduates first year graduate students and researchers in pure or applied mathematics or continuum mechanics They are appropriate for courses in mathematical elasticity theory of plates and shells continuum mechanics computational mechanics and applied mathematics in general

*Three-dimensional Elasticity* Philippe G. Ciarlet, 1993 **Three-Dimensional Elasticity** , 1994-01-19 This volume is a thorough introduction to contemporary research in elasticity and may be used as a working textbook at the graduate level for courses in pure or applied mathematics or in continuum mechanics It provides a thorough description with emphasis on the nonlinear aspects of the two competing mathematical models of three dimensional elasticity together with a mathematical analysis of these models The book is as self contained as possible **Mathematical Elasticity, Volume II** Philippe G. Ciarlet, 2021 The Mathematical Elasticity set contains three self contained volumes that together provide the only modern treatise on elasticity They introduce contemporary research on three dimensional elasticity the theory of plates and the theory of shells Each volume contains proofs detailed surveys of all mathematical prerequisites and many problems for teaching and self study An extended preface and extensive bibliography have been added to each volume to highlight the progress that has been made since the original publication The first book Three Dimensional Elasticity covers the modeling and mathematical analysis of nonlinear three dimensional elasticity In volume two Theory of Plates asymptotic methods provide a rigorous mathematical justification of the classical two dimensional linear plate and shallow shell theories The objective of Theory of Shells the final volume is to show how asymptotic methods provide a rigorous mathematical justification of the classical two dimensional linear shell theories membrane generalized membrane and flexural These classic textbooks are for advanced undergraduates first year graduate students and researchers in pure or applied mathematics or continuum mechanics They are appropriate for courses in mathematical elasticity theory of plates and shells continuum mechanics computational mechanics and applied mathematics in general Lectures on Three-dimensional Elasticity Philippe G. Ciarlet, 1983 Three-Dimensional Elastic Bodies in Rolling Contact J.J. Kalker, 1990-10-31 This book is intended for mechanicians engineering mathematicians and generally for theoretically inclined mechanical engineers It has its origin

in my Master s Thesis J 957 which I wrote under the supervision of Professor Dr R Timman of the Delft TH and Dr Ir A D de Pater of Netherlands Railways I did not think that the surface of the problem had even been scratched so I joined de Pater who had by then become Professor in the Engineering Mechanics Lab of the Delft TH to write my Ph D Thesis on it This thesis 1967 was well received in railway circles which is due more to de Pater s untiring promotion than to its merits Still not satisfied I felt that I needed more mathematics and I joined Professor Timman s group as an Associate Professor This led to the present work Many thanks are due to G M L Gladwell who thoroughly polished style and contents of the manuscript Thanks are also due to my wife herself an engineering mathematician who read the manuscript through critically and made many helpful comments to G F M Braat who also read and criticised and in addition drew the figures together with J Schonewille to Ms A V M de Wit Ms M den Boef and Ms P c Wilting who typed the manuscript and to the Publishers who waited patiently Delft Rotterdam 17 July 1990 J J

### **Three-Dimensional Problems of Elasticity and Thermoelasticity**

V.D. Kupradze, 2012-12-02 North Holland Series in Applied Mathematics and Mechanics Volume 25 Three Dimensional Problems of the Mathematical Theory of Elasticity and Thermoelasticity focuses on the theory of three dimensional problems including oscillation theory boundary value problems and integral equations The publication first tackles basic concepts and axiomatization and basic singular solutions Discussions focus on fundamental solutions of thermoelasticity fundamental solutions of the couple stress theory strain energy and Hooke s law in the couple stress theory and basic equations in terms of stress components The manuscript then examines uniqueness theorems and singular integrals and integral equations The book ponders on the potential theory and boundary value problems of elastic equilibrium and steady elastic oscillations Topics include basic theorems of the oscillation theory existence of solutions of boundary value problems integral equations of the boundary value problems and boundary properties of potential type integrals The publication also reviews mixed dynamic problems couple stress elasticity and boundary value problems for media bounded by several surfaces The text is a dependable source of data for mathematicians and readers interested in three dimensional problems of the mathematical theory of elasticity and thermoelasticity

### **Mathematical Elasticity, Three Volume Set** Philippe G. Ciarlet, 2022-03-30

The Mathematical Elasticity set contains three self contained volumes that together provide the only modern treatise on elasticity They introduce contemporary research on three dimensional elasticity the theory of plates and the theory of shells Each volume contains proofs detailed surveys of all mathematical prerequisites and many problems for teaching and self study An extended preface and extensive bibliography have been added to each volume to highlight the progress that has been made since the original publication The first book Three Dimensional Elasticity covers the modeling and mathematical analysis of nonlinear three dimensional elasticity In volume two Theory of Plates asymptotic methods provide a rigorous mathematical justification of the classical two dimensional linear plate and shallow shell theories The objective of Theory of Shells the final volume is to show how asymptotic methods provide a rigorous mathematical justification of the classical two

dimensional linear shell theories membrane generalized membrane and flexural These classic textbooks are for advanced undergraduates first year graduate students and researchers in pure or applied mathematics or continuum mechanics They are appropriate for courses in mathematical elasticity theory of plates and shells continuum mechanics computational mechanics and applied mathematics in general

*A Problem in Three-dimensional Elasticity* Andrawus Khuri, American University of Beirut. Faculty of Arts and Sciences. Department of Mathematics, 1966

Topics in Mathematical Elasticity Philippe G. Ciarlet, 1984

*Stress Formulation in Three-Dimensional Elasticity* Surya N. Patnaik, 2001

The theory of elasticity evolved over centuries through the contributions of eminent scientists like Cauchy Navier Hooke Saint Venant and others It was deemed complete when Saint Venant provided the strain formulation in 1860 However unlike Cauchy who addressed equilibrium in the field and on the boundary the strain formulation was confined only to the field Saint Venant overlooked the compatibility on the boundary Because of this deficiency a direct stress formulation could not be developed Stress with traditional methods must be recovered by backcalculation differentiating either the displacement or the stress function We have addressed the compatibility on the boundary Augmentation of these conditions has completed the stress formulation in elasticity opening up a way for a direct determination of stress without the intermediate step of calculating the displacement or the stress function

**Theory of Shells** Philippe G. Ciarlet, 2000-05-11

The objective of Volume III is to lay down the proper mathematical foundations of the two dimensional theory of shells To this end it provides without any recourse to any a priori assumptions of a geometrical or mechanical nature a mathematical justification of two dimensional nonlinear and linear shell theories by means of asymptotic methods with the thickness as the small parameter

Stress Formulation in Three-Dimensional Elasticity National Aeronautics and Space Administration (NASA), 2018-06-16

The theory of elasticity evolved over centuries through the contributions of eminent scientists like Cauchy Navier Hooke Saint Venant and others It was deemed complete when Saint Venant provided the strain formulation in 1860 However unlike Cauchy who addressed equilibrium in the field and on the boundary the strain formulation was confined only to the field Saint Venant overlooked the compatibility on the boundary Because of this deficiency a direct stress formulation could not be developed Stress with traditional methods must be recovered by backcalculation differentiating either the displacement or the stress function We have addressed the compatibility on the boundary Augmentation of these conditions has completed the stress formulation in elasticity opening up a way for a direct determination of stress without the intermediate step of calculating the displacement or the stress function This Completed Beltrami Michell Formulation CBMF can be specialized to derive the traditional methods but the reverse is not possible Elasticity solutions must be verified for the compliance of the new equation because the boundary compatibility conditions expressed in terms of displacement are not trivially satisfied This paper presents the variational derivation of the stress formulation illustrates the method examines attributes and benefits and outlines the future course of research Patnaik Surya N and Hopkins Dale A Glenn Research Center NASA TP 2001

210515 E 10106 1 NAS 1 60 210515      *Solution of Three-dimensional Elasticity Problems in Nuclei of Strain Mark*  
Lesley, American University of Beirut. Faculty of Arts and Sciences. Department of Mathematics, 1960      **Conservation**

**Laws in Three Dimensional Elasticity** Elizabeth Ann Robinson, 1994      **On a Maxwell-type Solution of**

**Three-dimensional Elasticity** H. H. E. (Horst Hermann Edward) Leipholz, University of Waterloo. Solid Mechanics  
Division, 1971      *On a Maxwell-type Solution of Three-dimensional Elasticity, by H. Leipholz* Horst H. E. Leipholz, 1971

**Mathematical Elasticity**, 1997-07-22 The objective of Volume II is to show how asymptotic methods with the thickness as the small parameter indeed provide a powerful means of justifying two dimensional plate theories More specifically without any recourse to any a priori assumptions of a geometrical or mechanical nature it is shown that in the linear case the three dimensional displacements once properly scaled converge in  $H^1$  towards a limit that satisfies the well known two dimensional equations of the linear Kirchhoff Love theory the convergence of stress is also established In the nonlinear case again after ad hoc scalings have been performed it is shown that the leading term of a formal asymptotic expansion of the three dimensional solution satisfies well known two dimensional equations such as those of the nonlinear Kirchhoff Love theory or the von Kármán equations Special attention is also given to the first convergence result obtained in this case which leads to two dimensional large deformation frame indifferent nonlinear membrane theories It is also demonstrated that asymptotic methods can likewise be used for justifying other lower dimensional equations of elastic shallow shells and the coupled pluri dimensional equations of elastic multi structures i.e. structures with junctions In each case the existence uniqueness or multiplicity and regularity of solutions to the limit equations obtained in this fashion are also studied      **The sliding inclusion in three-dimensional elasticity** Iwona Jasiuk, 1986      Application of the Stiffness Method to Three-dimensional Elasticity Problems Larry Leroy Erickson, 1963

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