SYMMETRIES IN THE LINEAR THEORY OF THE DEFORMATION OF THIN SHELLS

YOSHIKI JIKUMARU

Assertance. In this paper, we show that symmetries, which are known in the theory of integrable systems, naturally appeared in the classical linear theory of deformations of thin shells. Our result shows that if the middle surface of a shell becomes 'integrable', infinitely many deformations exist that have no shear strains and twisting of the coordinate lines.

1. Introduction

In the field of architectural surface design, shell structures have the advantage that, with an appropriate geometry, they can be thin and lightweight yet still cover large spaces without supports. In the last two decades, remarkable connections have been discovered between the shell membrane theory and the theory of integrable systems [8, 9, 10, 12]. In this paper, we focus on deformations in the linear theory of thin shells under the hypothesis of Kirchhoff-Love and reveal another relationship with the integrable systems. The strains caused by the deformation must satisfy the St. Venant type compatibility conditions in the theory of elasticity, which is known as Gol'denweizer's compatibility conditions in the thin shell theory [2, 6]. First, the Gol'denweizer's compatibility conditions are reformulated as an analogue of the Gauss-Mainardi-Codazzi equations for the middle surface of a shell. It is then shown that Gol'denweizer's conditions can be regarded as "symmetries" of the Gauss-Mainardi-Codazzi equations under the assumption that no shear strain and twisting of the coordinate lines occurred in the deformation. Finally, some examples of symmetries are given for the case where the Gauss equations become soliton equations, which are important in the field of integrable geometry.

2. Preliminables

In the linear theory of thin shells, a shell can be analysed using classical differential geometry of surfaces by considering its middle surface as a smooth surface in 3-dimensional Euclidean space and taking parallel surfaces for the thickness. For the basic theory of thin shells, see, for example, [3, 4, 6]. This paper follows the symbols in [6, 8].

Let us consider a surface $r = r(\alpha, \beta)$ in the 3-dimensional Euclidean space parametrized by the curvature line coordinates (α, β) , that is, the first and second fundamental forms are diagonalized. We denote the first fundamental form I by

(1)
$$I = A_1^2 d\alpha^2 + A_2^2 d\beta^2$$
, $A_1^2 = \mathbf{r}_{\alpha} \cdot \mathbf{r}_{\alpha}$, $A_2^2 = \mathbf{r}_{\beta} \cdot \mathbf{r}_{\beta}$,

where the subscripts represent the partial derivatives. Let e_1 and e_2 be the unit tangent vectors on the surface defined by the following relations:

$$r_{\alpha} = A_1e_1, \quad r_{\beta} = A_2e_2.$$

In the curvature line coordinates, a direct calculation shows that the compatibility condition $(r_\alpha)_\beta = (r_\beta)_\alpha$ for the linear system (2) is given by

(3)
$$(A_1)_\beta = pA_2$$
, $(A_2)_\alpha = qA_1$, $(e_1)_\beta = qe_2$, $(e_2)_\alpha = pe_1$,

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Altenbach, 2019-04-29 This book presents a theoretical approach that allows the analysis of structures with magnetorheological and electrorheological layers and shows with the help of examples how the mechanical behaviour of thin walled laminated structures can be influenced It consists of six chapters Chapter 1 presents a brief overview of derivation approaches for theories of thin walled structures modelling of composites and modelling of laminated and sandwich structures Chapter 2 describes the equivalent single layer model for thin laminated cylindrical shells including the special cases of plates and beams In addition to the classical mechanical properties it also considers the electrorheological and magnetorheological properties Chapter 3 presents the elastic buckling of laminated beams plates and cylindrical shells discussing various problems such as the influence of the boundary conditions external loading and magnetic fields It also suggests different approximations for asymptotic methods Chapter 4 focuses on the free vibrations of elastic laminated beams plates and cylindrical shells investigating the influence of the boundary conditions and other factors Chapter 5 presents the latest results concerning vibration of laminated structures composed of smart materials and discusses in detail the influence of electric and magnetic fields on smart structures These results provide insights into the optimal design of these structures Lastly Chapter 6 features a short appendix presenting asymptotic estimates and series Textile and Laminated Composites A. Bogdanovich, Christopher M. Pastore, 1996-08-31 Mechanics of Textile and Laminated Composites is in three parts The first part Chapters 1 and 2 covers the fundamental issues of 3 D theory of elasticity and presents the theory of elasticity of an anisotropic body with comprehensive analysis of its specific cases The second part Chapters 3 5 presents the theoretical and experimental characterization of the elastic properties of unidirectional textile and layered composite materials The final part Chapters 6 and 7 addresses the problems of 3 D stress analysis in laminated and textile composite structures Major emphasis is placed on textile composites perhaps the most complex and at the same time most promising group of composite materials One of the most important features of this book is that it provides accurate and efficient 3 D analysis of laminated and textile reinforced structures using novel methods It has become more and more evident in recent years that in many practical design situations such full scale 3 D analyses are required Researchers designers and engineers working with composite materials and structures will find this book an invaluable addition to their libraries Shell-like Structures Holm Altenbach, Victor A. Eremeyev, 2011-07-03 In this volume scientists and researchers from industry discuss the new trends in simulation and computing shell like structures The focus is put on the following problems new theories based on two dimensional field equations but describing non classical effects new constitutive equations for materials like sandwiches foams etc and which can be combined with the two dimensional shell equations complex structures folded branching and or self intersecting shell structures etc and shell like structures on different scales for example nano tubes or very thin structures similar to membranes but having a compression stiffness In addition phase transitions in shells and refined shell thermodynamics are discussed The chapters of this book are

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