An Overview of Basic Concepts of Finite Element Analysis and Its Applications in Orthodontics

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Abstract. Purpose: The aim of this article is to acquaint the readers with the aims and goals of the finite element method and how to use it in dentistry and especially in orthodontics.

Aflethods: The finite element method (FEM) has shown to be a beneficial research tool that has assisted scientists in various analyses such as stress stress, heat transfer dynamic, collecter, and deformation analyses. The FEM is responsible for predicting the behavior of objects under different working conditions. It is a computational procedure to measure the stress in an element, which performs a model solution to solve a problem; the FEM subdivides a legislary-stem into smaller, simpler parts called finite elements. This is achieved by a particular space discretization in the space discretization must be an adjusted by the construction of a mesh of the object. The technique of FEA less in the discretization must be an adjusted in must be an adjusted in the solution must be actually must be an adjusted in the solution.

Conclusions: The FEM can be effective in understanding the behavior of teeth, both jaws, craniofacial structure, and offer hard teams structure of humans under various working conditions, as the technique allows for evaluating tooth movement and the stress distribution within the surrounding alweelsr bone, the periodontal (glament (PDL). This technique is exceptionally valuable for evaluating mechanical espects of biomaterials and human teams that can hardly be measured in sino. This review article presents the FEM, its methodology, and its application is the orthodontic domain.

Keywords: Finite element analysis. Finite element method. Orthodontics.

IN TRODUCTION

Experimental, analytical, and numerical methods are well-known techniques used to solve problems [1]. erner throad Proposition . SECURITION. advantages. disadvantages making them practical or impractical in different problems. For instance, although experimental technique can lead to trustable outcomes. It has some drawbacks such as being time consuming, can be influenced from human error, being high-cost technique, all variables cannot be controlled, and its result can be applied to only one situation [2]. Furthermore, employing analytical methods would be really challenging and, in some cases, inapplicable for complex problems (like alveolar structures). Therefore, the numerical method can be a good choice in terms of time, cost, eliminating human error, managing the variables, repeating the analyses, and solving complex problems. The Finite Element Method (FEM) is regarded as a numerical method that can be employed to model physical or physiological phenomena. Computers using the FEM, simulate different physical and geometrical characteristics of any structures. This method can assist in the prediction of behavior of any object under differing situations, and can help with the design and manufacturing process [3].

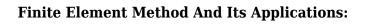
Finite element analysis (FEA) evaluates physical phenomena using a numerical technique, the FEM. It is a powerful computerized method that can analyze the behavior of complex geometry with heterogeneous material properties. FEA is employed in orthodontics by evaluating the interactions between the teeth and the surrounding tissues. The method allows orthodontists to understand better the physiological reactions that are likely to occur within the dentoalveolar complex, resulting from thermal stress created by hot and cold drinks [4].

FEA was first developed by R. Courant [5] in 1943 using the Ritz method in numerical analysis. A few years later, in 1956, Turner MJ et al. [6] published a paper focusing on the "stiffness and deflection of

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Table of Contents Finite Element Method And Its Applications

- 1. Understanding the eBook Finite Element Method And Its Applications
 - The Rise of Digital Reading Finite Element Method And Its Applications
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Finite Element Method And Its Applications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Finite Element Method And Its Applications
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Finite Element Method And Its Applications

- Personalized Recommendations
- Finite Element Method And Its Applications User Reviews and Ratings
- Finite Element Method And Its Applications and Bestseller Lists
- 5. Accessing Finite Element Method And Its Applications Free and Paid eBooks
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 - Finite Element Method And Its Applications eBook Subscription Services
 - Finite Element Method And Its Applications Budget-Friendly Options
- 6. Navigating Finite Element Method And Its Applications eBook Formats
 - o ePub, PDF, MOBI, and More
 - Finite Element Method And Its Applications Compatibility with Devices
 - Finite Element Method And Its Applications Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Finite Element Method And Its Applications
 - Highlighting and Note-Taking Finite Element Method And Its Applications
 - Interactive Elements Finite Element Method And Its Applications
- 8. Staying Engaged with Finite Element Method And Its Applications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Finite Element Method And Its Applications
- 9. Balancing eBooks and Physical Books Finite Element Method And Its Applications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Finite Element Method And Its Applications
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Finite Element Method And Its Applications
 - Setting Reading Goals Finite Element Method And Its Applications
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Finite Element Method And Its Applications

- Fact-Checking eBook Content of Finite Element Method And Its Applications
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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