

Если выделить двумя бесконечно близкими поперечными сечениями элемент стержня длиной δx , то силы инерции, соответствующие вращению этого элемента, дадут нам моменты равный

$$- \frac{J \gamma}{g} \frac{\partial^2 y}{\partial x \partial t^2} \delta x \dots \dots \dots (c)$$

При составлении дифференциального ур-я для изогнутой оси стержня нужно принять во внимание не только непрерывно распределенную нагрузку, соответствующую силам инерции поступательного движения, но и непрерывно распределенные моменты, определяемые ϕ -ой (c). В таком случае влияние изгибающего момента вдоль оси стержня представится так

$$\frac{\partial M}{\partial x} = Q - \frac{J \gamma}{g} \frac{\partial^2 y}{\partial x \partial t^2}$$

Здесь Q поперечная сила, получающаяся от сил инерции поступательного движения элементов стержня.

Вставляя найденное значение производной $\frac{\partial M}{\partial x}$ в дифференциальное ур-е

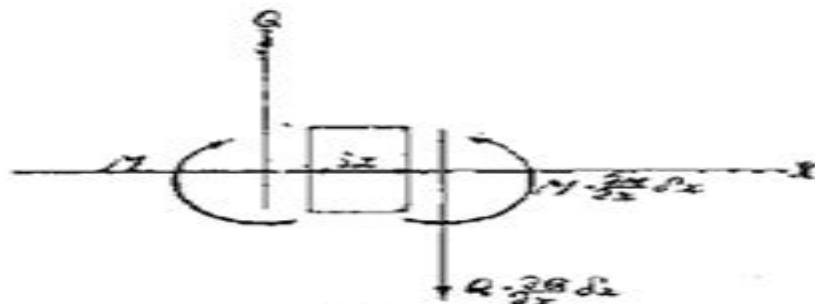
$$EJ \frac{\partial^2 y}{\partial x^2} = - \frac{\partial M}{\partial x},$$

получаем

$$EJ \frac{\partial^4 y}{\partial x^4} = - \frac{\gamma F}{g} \frac{\partial^2 y}{\partial t^2} + \frac{J \gamma}{g} \frac{\partial^4 y}{\partial x^2 \partial t^2} \dots \dots \dots (177)$$

Второй член в правой части ур-я представляет собой поправку, обусловленную поворотом поперечных сечений при колебаниях.

Более точное ур-е мы получим, если примем во внимание не только влияние сил инерции, соответствующих повороту сечений, но также и влияние касательных напряжений на прогиб стержня¹⁾. Выделим из стержня двумя бесконечно близкими сечениями элемент длиной δx и составим для него ур-я движения. Положение выделенного элемента определится перемещением y его центра тяжести и углом поворота ϕ относительно нейтральной линии²⁾. Так как прогиб



Черт. 76.

стержня обусловлен не только относительно поворотом поперечных сечений, но также и движением их относительно друг друга, то угол наклона кас-

¹⁾ Влияние касательных напряжений на период поперечных колебаний стержня обыкновенно не принимается в расчет, а между тем соответствующая ему поправка по своей величине больше той, которая получается от поперечных сил сечений.

²⁾ При составлении ур-я мы рассматриваем элемент, как абсолютно твердое тело и пренебрегаем искривлением поперечных сечений, поэтому наша поправка лишь приближенно оценивает влияние касательных сил. Нами совместно с проф. П. Эренфестом получено также точное решение задачи для колеса прямоугольного поперечного сечения. Это решение, как и цитированное нами выше (стр. 184) решение Рессламптона для круглого цилиндра, показывают, что приведенное здесь приближенное решение с достаточной точностью учитывает влияние касательных сил.

Elasticity Timoshenko Solution Manual

Christian Drosten



Elasticity Timoshenko Solution Manual:

Stretchable Electronics Takao Someya, 2013-01-29 On a daily basis our requirements for technology become more innovative and creative and the field of electronics is helping to lead the way to more advanced appliances This book gathers and evaluates the materials designs models and technologies that enable the fabrication of fully elastic electronic devices that can tolerate high strain Written by some of the most outstanding scientists in the field it lays down the undisputed knowledge on how to make electronics withstand stretching This monograph provides a review of the specific applications that directly benefit from highly compliant electronics including transistors photonic devices and sensors In addition to stretchable devices the topic of ultraflexible electronics is treated highlighting its upcoming significance for the industrial scale production of electronic goods for the consumer Divided into four parts covering Theory Materials and Processes Circuit Boards Devices and Applications An unprecedented overview of this thriving area of research that nobody in the field or intending to enter it can afford to miss *Improved Numerical Methods for Solutions of a Beam's Axial, Torsion and Flexure Problems* Zvi Friedman, 1997 *A Project-Based Introduction to Computational Statics* Andreas Öchsner, 2020-11-13 This book uses a novel concept to teach the finite element method applying it to solid mechanics This major conceptual shift takes away lengthy theoretical derivations in the face to face interactions with students and focuses on the summary of key equations and concepts and to practice these on well chosen example problems For this new 2nd edition many examples and design modifications have been added so that the learning by doing features of this book make it easier to understand the concepts and put them into practice The theoretical derivations are provided as additional reading and students must study and review the derivations in a self study approach The book provides the theoretical foundations to solve a comprehensive design project in tensile testing A classical clip on extensometer serves as the demonstrator on which to apply the provided concepts The major goal is to derive the calibration curve based on different approaches i e analytical mechanics and based on the finite element method and to consider further design questions such as technical drawings manufacturing and cost assessment Working with two concepts i e analytical and computational mechanics strengthens the vertical integration of knowledge and allows the student to compare and understand the different concepts as well as highlighting the essential need for benchmarking any numerical result **The Publishers' Trade List Annual** ,1980 [Applied Mechanics Reviews](#) ,1955 **A Programmed Finite Difference Solution for Rotating Disks of Variable Thicknesses** Morris Reich, 1965 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1972 **Strength of Materials** Surya Patnaik, Dale Hopkins, 2004 Determinate truss Simple beam Determinate shaft Simple frames Indeterminate truss Indeterminate beam Indeterminate shaft Indeterminate frame Two dimensional structures Column buckling Energy theorems Finite element method Special topics [Scientific and Technical Books in Print](#) ,1972 *Subject Guide to Books in Print* ,1993 [The Journal of the Aeronautical Society of India](#) Aeronautical Society of India, 1965 **Books in Print**

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