

Если выдѣлить двумя безконечно близкими поперечными сѣченіями элементъ стержня длиной δx , то силы инерціи, соответствующія вращенію этого элемента, дадутъ намъ моменты равныя

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

При составленіи дифференціального ур-ія для изогнутой оси стержня нужно принять во вниманіе не только непрерывно распределенную нагрузку, соответствующую силамъ инерціи поступательнаго движенія, но и непрерывно распределенные моменты, опредѣляемые ϕ -ой (c). Въ такомъ случаѣ вліяніе изгибающаго момента вѣдомъ ось стержня представляется такъ

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

Здѣсь Q поперечная сила, получающаяся отъ силъ инерціи поступательнаго движенія элементовъ стержня.

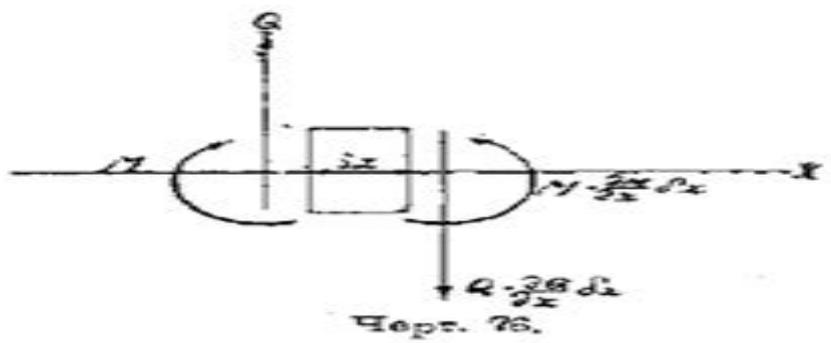
Вставляя найденное значеніе производной $\frac{\partial M}{\partial x}$ въ дифференціальное ур-іе

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

получаемъ

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

Второй членъ въ правой части ур-ія представляетъ собой поправку, обусловленную поворотомъ поперечныхъ сѣченій при колебаніяхъ.



Волѣе точное ур-іе мы получимъ, если примемъ во вниманіе не только вліяніе силъ инерціи, соответствующихъ повороту сѣченій, но также и вліяніе касательныхъ напряженій на прогибъ стержня¹⁾. Выдѣлимъ изъ стержня двумя безконечно близкими сѣченіями элементъ длиной δx и составимъ для него ур-іе движенія. Положеніе выдѣленнаго элемента опредѣлится перемѣщеніемъ y его центра тяжести и угломъ поворота ϕ относительно нейтральной линіи²⁾. Такъ какъ прогибъ

стержня обусловленъ не только относительнымъ поворотомъ поперечныхъ сѣченій но также и движеньемъ ихъ одно относительно другого, то уголъ наклона касе-

1) Вліяніе касательныхъ напряженій на періодъ поперечныхъ колебаній стержня обыкновенно не принимается въ расчетъ, а между тѣмъ соответствующая ему поправка по своей величинѣ больше той, которая получается отъ поперечнаго сѣченія.

2) При составленіи ур-ія мы рассматриваемъ элементъ, какъ абсолютно твердое тѣло и пренебрегаемъ искривленіемъ поперечныхъ сѣченій, поэтому наша поправка лишь приближенно оцѣниваетъ вліяніе касательныхъ силъ. Намъ совѣстно съ проф. П. Эрихнстомъ получить также точное рѣшеніе задачи для колеса прямоугельнаго поперечнаго сѣченія. Это рѣшеніе, какъ и цитированное нами выше (стр. 184) рѣшеніе Ресншампгоа для круглаго цилиндра, показываютъ, что приведенное здѣсь приближенное рѣшеніе съ достаточной точностью учитываетъ вліяніе касательныхъ силъ.

Elasticity Timoshenko Solution Manual

L Reisser



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 [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

[Improved Numerical Methods for Solutions of a Beam's Axial, Torsion and Flexure Problems](#) Zvi Friedman,1997

[Mechanics of Materials, International Adaptation](#) Roy R. Craig, Jr.,Eric M. Taleff,2021-06-16 Mechanics of Materials provides an in depth yet accessible introduction to the behavior of solid materials under various stresses and strains Emphasizing the three key concepts of deformable body mechanics equilibrium material behavior and geometry of deformation this popular textbook covers the fundamental concepts of the subject while helping students strengthen their problem solving skills Throughout the text students are taught to apply an effective four step methodology to solve numerous example problems and understand the underlying principles of each application Focusing primarily on the behavior of solids

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The Finite Element Method in Machine Design Eliahu Zahavi,1992 This handbook introduces the reader to the theoretical concepts that underpin the finite elements method FEM It also covers the application of these concepts to the workable process of machine design **Books in Print** ,1962 **Proceedings of the Society for Experimental Mechanics** Society for Experimental Mechanics (U.S.),1988

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