



The fundamental structural mechanics of elastic systems

By Leschenko, Alexander Petrovich

Editorial URSS, 2006. soft. Condition: New. Encuadernación: rústica. A. P. Leschenko has offered a completely new approach to structural mechanics, which allowed for a unique technique for structural engineering to be developed. This new method is based on the following three discoveries made by the author: --- Phenomenon of separating torsional strains of elastic bars; --- Specific law of analogy in stability and oscillation of elastic systems; --- Principle of force factors pairing in structural mechanics. All actual approaches and theories of structural mechanics widely employ such an abstract concept as generalized force, neglecting, however, a definite and practical concept of external force factor. In author's opinion, this breaks the interrelations between the external and internal forces acting on structures and the strains occurring in the structures, which leads to an implicit violation of the classical mechanics laws, namely the law of energy conservation, the Lagrange principle, and Newton's laws. It should be stressed that Leschenko does not suggest that one concept should be simply replaced by the other, but interrelates the external action with other forces and factors concurrently acting on the structure. Thus, the author has proposed to consider any elastic system as based on three permanently acting...



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