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Viscoelasticity

By Wilhelm Flügge

Springer-Verlag GmbH Dez 2012, 2012. Taschenbuch. Condition: Neu. Neuware - No mathematical theory can completely describe the complex world around us. Every theory is aimed at a certain class of phenomena, formulates their essential features, and disregards what is of minor importance. The theory meets its limits of applicability where a disregarded influence becomes important. Thus, rigid-body dynamics describes in many cases the motion of actual bodies with high accuracy, but it fails to produce more than a few general statements in the case of impact, because elastic or anelastic deformation, no matter how local or how small, attains a dominating influence. For a long time mechanics of deformable bodies has been based upon Hooke's law - that is, upon the assumption of linear elasticity. It was well known that most engineering materials like metals, concrete, wood, soil, are not linearly elastic or, are so within limits too narrow to cover the range of practical interest. Nevertheless, almost all routine stress analysis is still based on Hooke's law because of its simplicity. In the course of time engineers have become increasingly conscious of the importance of the anelastic behavior of many materials, and...



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