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# Time-dependent Mechanical Properties of Solids (Materials Science Foundations)

*Wolfgang Gräfe*

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This treatment of Time-Dependent Mechanical Properties of Solids begins with a phenomenological description of the transport of some unspecified entity. It is assumed that the transport is caused by mechanical stresses or temperature fields. This hypothesis is based upon just a few well-established methods such as, for instance, the Zener theory of diffusion and the Inglis equation for stress enhancementof. Using these assumptions, it is possible to deduce formulae for a theoretically based description of several phenomena without referring to any specific process or entity.
These theoretical results then provide the tools for performing methodologically better scientific work and for a better analysis of data in the practical application of materials. By publishing this work, the author hopes improve technical safety in transportation and other fields of practical materials application. Another goal is to stimulate the scientific investigation of a wider range of substances in order to analyze more extensively the elementary processes which produce observed phenomena.
Because the intended readership of this work is not limited to scientists, the author has deliberately avoided the use of tensor calculus in the deduction of the formula.
This is altogether a groundbreaking essay which will repay careful study.

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