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William Prager. William Prager (May 23, 1903 in Karlsruhe – March 16, 1980 in Zurich) was a German-born US applied mathematician. In the field of mechanics he is well known for the Drucker-Prager yield criterion. He was a lecturer at Darmstadt, a deputy director at University of Göttingen, professor at Karlsruhe, University of Istanbul,...

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Biography Abstract. William Prager was Emeritus Professor of Engineering and Applied Mathematics at Brown University (1973-1980). Other institutional affiliations included University of California, San Diego, International Business Machines (IBM) and the University of Istanbul.

Prager W Mecjanics Of Continuaa

A classic in the field, this book meets the demands of courses that establish groundwork in hydrodynamics, gas dynamics, plasticity and elasticity, and it provides typical continua problems for nonspecialists. The author addresses the major aspects of continuum studies: geometrical foundations, state of stress, instantaneous motion, fundamental laws, perfect fluids, viscous fluids, visco ...

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158 D. C. DRUCKER AND W. PRAGER [Vol. X, No. 2 2. Yield function and stress-strain relation. A yield function which is a proper generalization of the Mohr-Coulomb hypothesis (1) is  $f = aJ_1 + J_1/2 = k$ , (2) where  $a$  and  $k$  are positive constants at each point

of the material;  $J_x$  is the sum of the principal stresses:

Prager, William, 1903-1980

Biot, M. A. Mechanics of Incremental Deformations (Theory of Elasticity and Viscoelasticity of Initially Stressed Solids and Fluids, Including Thermodynamic Foundations and Applications to Finite Strain).

Critical state soil mechanics - Wikipedia

While in the microscopic theory of materials, the word "plasticity" is usually interpreted as denoting deformation by dislocation processes, in macroscopic continuum mechanics it is taken to denote any type of permanent deformation of materials, especially those of a type for which time or rate of deformation effects are not the most dominant feature of the phenomenon (the terms viscoplasticity, creep, or viscoelasticity are usually used in such cases).

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