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The prediction of the various patterns of the de-formation properties of the plastics by calculation methods can be based on the linear and non-linear theory of heredity and on the principle of the time-temperature superposition, which thus comprise the physical principles of the methods of predicting the mechanical deformation properties of the plastics.

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A variant of calculation of the characteristics of the deformation properties of a hybrid composite containing a complex disperse filler in the form of granular particles and short fibers was proposed. The effect of aggregation of the granular filler, the statistical distributions of the fibers by lengths and orientation in the material, and the anisotropy of the fibers are taken into

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deformation prediction models. Fourth, a multiple regression analysis is conducted to develop the prediction models for permanent deformation properties using these performance-related properties. The developed models are capable of accurately predicting the permanent deformation properties of UGMs.

Characterization and prediction of permanent deformation ...

The determined permanent deformation properties are assigned as target values for the development of permanent deformation prediction models. Third, a series of performance-related base course properties are used to comprehensively characterize the UGMs, which include the dry density, moisture content, aggregate gradation, morphological properties, percent fines content, and methylene blue value.

Characterization and prediction of permanent deformation ...

Static deformation modulus is recognized as one of the most important parameters governing the behavior of rock masses. Predictive models for the mechanical properties of rock masses have been used in rock engineering because direct measurement of the properties is difficult due to time and cost constraints.

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and Shrinkage Properties of Lightweight Concrete Used in the State of Iowa" (HR-136), and "Time-Dependent Deformation of Non-Composite and Composite Sand-Lightweight Prestressed Concrete Structures" (HR-137) were designed to investigate the long term state of limit deflection. The familiar creep prediction methods developed by Ross (2)

The Prediction of Creep and Shrinkage Properties of Concrete

The UDEC results agree well with the empirical prediction for the relevant case of J0 and J90, however, the data illustrate that deformation modulus can vary considerably with joint dip angle, as illustrated in Fig. 12. The intact rock deformation modulus (from Table 3) is also illustrated in Fig. 14. Download : Download high-res image (133KB)

Prediction of strength and deformability of an interlocked ...

In this study, the thermal and elastic properties of a honeycomb sandwich plate, such as thermal conductivity, coefficient of thermal expansion, elastic modulus, Poisson's ratio, and shear modulus, are predicted. The properties of a honeycomb sandwich plate vary according to the hexagon size, thickness, and material properties. AB - Thermal problems that are directly related to the lifetime of an electronic device are becoming increasingly important owing to the miniaturization of electronic ...

Prediction of thermal and elastic properties of honeycomb ...

to predict deformation and stress for subduction zones. The assumptions common to all the models in this study are linear elastic behavior, deformation driven entirely by dislocations (no remote loading), and no gravitational effects. The results of this study may be extended to estimate the significance of the HIPSHS assumptions in other subduc-

Finite element model predictions of static deformation ...

Deformation bands have millimetre-scale displacements, which are smaller than the seismic resolution, and hence the study of their microstructure from reservoir cores is a necessary tool in the prediction of their fault seal potential.

The petrophysical properties of deformation bands in ...

Assuming perfect bonding between equivalent inclusions and the surrounding matrix, the Mori-Tanaka method is used to predict macro properties of composites. An extensive parametric study with a wide range of geometry parameters is conducted to verify the proposed multiscale homogenization strategy. 4.1.

Multiscale homogenization method for the prediction of ...

Based on the results of the experiments, an artificial neural network (ANN) model was developed for prediction of permanent strain of blends and investigating the impact of the test variables....

Experimental and ANN analysis of temperature effects on ...

Prediction of Magnetic Properties of a Plastically Deformed Steel and One Way to Measure its Plastic Deformation M.J. Sablik msablik55@outlook.com 1 1 Applied Magnetics and Physical Modeling, , San Antonio