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sections is extended
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especially designed for fixturing cylindrical battery cells to plastic bases and holders.

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deformation of structural elements composed of relatively thin ductile materials. These deformations are commonly used in sheet metal forming operations to produce lightweight parts of any particular shape. In another context, this type of plastic deformation is

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described as impact damage in the case of structural components involved in collision.

Here we are concerned with mechanics of both static and dynamic deformation processes. The purpose is to use typical material properties and structural

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calculate the deformation for certain types of load; in particular to find the final deflection and shape of the deformed structure and to illustrate how the development of this final shape depends on the constitutive model used to represent the

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Material behavior.

The major issue to be addressed is which structural and constitutive properties are important for calculating response to either static or brief but intense dynamic loads. Furthermore, how do the results of various constitutive models compare with observed behavior.

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limit and shakedown
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by using a unified
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series of solutions of
plates from circular,
annular plates to
rhombus plates and
square plates, rotating
discs and cylinders,
pressure vessels are
presented. These
results encompass
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Coulomb solution of structure as special cases. The unified solution, which cannot be obtained by using a single criterion, is suitable to more materials and structures. Maohong Yu is professor of Department of Civil Engineering at Xi'an Jiaotong University, China. He has

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authored 12 books including "Unified Strength Theory and Its Applications" and "Generalized Plasticity".

As mankind continues to push back the boundaries and begins to explore other worlds and the ocean depths, a thorough

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were a large number of papers presented under topics of impact, blast and shock loading, indicating a strong research interest in high rates of loading. Similarly new topics have been added to the traditional symposium list such as fire loading, earthquake loading,

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and fatigue and connection failures. It is clear now that fundamental knowledge of plastic deformation of structures to various extreme loads is coming of age. Each full paper was peer reviewed by at least two experts in the field.

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applications, including
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“Computational
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Emphasis on the Application of the Unified Strength Theory” explores a new and important branch of computational mechanics and is the third book in a plasticity series published by Springer. The other two are: Generalized Plasticity, Springer:

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Berlin, 2006; and
Structural Plasticity,
Springer and Zhejiang
University Press:
Hangzhou, 2009. This
monograph describes
the unified strength
theory and associated
flow rule, the
implementation of
these basic theories
in computational
programs, and shows
how a series of

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results can be obtained by using them. The unified strength theory has been implemented in several special nonlinear finite-element programs and commercial Finite Element Codes by individual users and corporations. Many new and interesting findings for beams,

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plates, underground
caves, excavations,
strip foundations,
circular foundations,
slop, underground
structures of hydraulic
power stations,
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power stations,
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high-velocity
penetration of
concrete structures,
ancient structures,

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and rocket components, along with relevant computational results, are presented. This book is intended for graduate students, researchers and engineers working in solid mechanics, engineering and materials science.

The theories and methods provided in

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this book can also be used for other computer codes and different structures. More results can be obtained, which put the potential strength of the material to better use, thus offering material-saving and energy-saving solutions. Mao-Hong Yu is a professor at the

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Department of Civil
Engineering at Xi'an
Jiaotong University,
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This book begins with the fundamentals of the mathematical theory of plasticity. The discussion then turns to the theory of plastic stress and its applications to structural analysis. It

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concludes with a wide range of topics in dynamic plasticity including wave propagation, armor penetration, and structural impact in the plastic range. In view of the rapidly growing interest in computational methods, an appendix presents the fundamentals of a

Download Ebook Dynamic finite-element analysis of metal-forming problems. Structural Plasticity

Schizophrenia is a debilitating neuropsychiatric disorder that affects about one percent of the population worldwide. For decades, researchers have been investigating its

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etiology without success. However, there is consistent data indicating that patients experience a reduction in cortical volume likely due to shorter neuronal extensions. The neurotransmitter dopamine has also been commonly associated with this psychotic disorder but

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its role remains elusive. At the same time, mounting evidence indicates that schizophrenia is a neurodevelopmental illness. It has yet to be determined whether there is an association between these apparently unrelated findings. Our main hypothesis is that schizophrenia

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is a neurodevelopmental disorder caused, at least in part, by a faulty neurostructural response to dopamine during development. The aim of this study is to show that human neuroblastoma cells present dynamic structural changes similar to what is known to occur during

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normal brain development. In addition, we aim to demonstrate that dopamine has a direct influence on these dynamic structural changes. Our results indicate that human neuroblastoma cells of the line SH-SY5Y present dynamic structural changes in vitro that increase

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when cells are differentiated with retinoic acid.

However, treatments with various concentrations of colchicine, a toxin known to affect the cytoskeleton, failed to impact these structural changes.

Likewise, different concentrations of dopamine did not

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modify the structural plasticity observed in these cells and did not exhibit any directional bias with regard to retraction and extension. It is possible that longer incubation times with dopamine could have influenced the dynamic structural changes seen in neuroblastoma cells.

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It is also likely that chemicals known to alter the actin cytoskeleton could have impacted the neuronal structure.

In dealing with extreme loads on structures, simple approximations of key variables can indicate if there is a threat of collapse. The ability to

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determine such variables early on strongly impacts the decisions about the engineering approach to adopt. Formulas for Mechanical and Structural Shock and Impact is a self-contained and concise presentation of formulas and methodology you can use to determine

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dynamic response to shock loads, to help you decide on the optimal design. This book offers insight into how objects and structures respond to sudden, strong—and generally short—impulses. In our computer-oriented environment, in which structural programs are used for most

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large analytical tasks, engineers can still benefit from certain manual calculations and analytical methods to quickly assess the situation at hand. Exploring a range of mechanical and civil engineering applications, the text enables engineers to manually calculate what happens to

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providing ready
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sometimes employed. These scenarios may include:

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early in the design process, often eliminating the need for complicated and more involved solutions later. This book is a valuable companion for modern engineers who need concise and relatively easy methods of hand calculation to determine the

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essential variables.

Without emphasizing any one particular type of structure, its scope is quite broad and applies to mechanical aspects of aeronautical, automotive, nuclear, and civil engineering, as well as those in general machine design. Stressing simplicity, the author

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