

# Ebook free Engineering plasticity johnson mellor (Read Only)

Engineering Plasticity Deformation Theory of Plasticity  
Engineering Plasticity Structural Plasticity Plastic  
Bending Applied Plasticity, Second Edition Introduction  
to Engineering Plasticity Applied Plasticity The  
Thermomechanics of Plasticity and Fracture Combined  
Loadings in the Theory of Plasticity [?] Engineering  
Plasticity Plasticity Generalized Plasticity A Course  
on Plasticity Theory Energy Absorption of Structures  
and Materials Plasticity of Metallic Materials Problems  
of Technological Plasticity Plasticity for Engineers  
Mechanics of Solids Plasticity Theory Plasticity for  
Mechanical Engineers Basic Engineering Plasticity  
Advances in Engineering Plasticity and its Applications  
Applied Mechanics Reviews Computational Plasticity  
Numerical Modelling of Material Deformation Processes  
Coatings Tribology Introduction to Adiabatic Shear  
Localization Self-Organization During Friction Metal  
Forming Engineering Plasticity Applied Elasticity and  
Plasticity Fundamentals of Engineering Plasticity  
Plasticity, Limit Analysis, Stability And Structural  
Design: An Academic Life Journey From Theory To  
Practice Theory of Plasticity Introduction to Impact  
Dynamics Metal Forming and the Finite-Element Method  
Plasticity and failure behavior of solids Integration  
of Mechanics into Materials Science Research: A Guide  
for Material Researchers in Analytical, Computational  
and Experimental Methods

# ***Engineering Plasticity***

1983

limit and shakedown analysis for structures can provide a very useful tool for design and analysis of engineering structures structural plasticity limit shakedown and dynamic plastic analyses of structure provides more general solutions of limit and shakedown analysis for structures by using a unified strength theory a 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 the tresca mohr 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 authored 12 books including unified strength theory and its applications and generalized plasticity

## **Deformation Theory of Plasticity**

2009

from the point of view of mechanics this monograph systematically demonstrates the theory of plastic bending and its engineering applications most of the contents of the book are based on the authors research in the past decade the monograph not only expounds the contributions of the authors to the fundamental theory of plastic bending but also presents various applications of the theory in sheet metal forming particularly in the analysis and prediction of springback and wrinkling of strips and plates subjected to bending or stamping in addition to theoretical modelling attention has also been paid to the development of related numerical methods comparisons with experimental results are also presented

# **Engineering Plasticity**

1975

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 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 finite element analysis of metal forming problems

## ***Structural Plasticity***

2009-11-14

the theory of plasticity is a branch of solid mechanics that investigates the relationship between permanent deformation and load and the distribution of stress and strains of materials and structures beyond their elastic limit engineering plasticity underpins the safety of many modern systems and structures realizing the full potential of materials as well as designing precise metal processing and energy absorption structures requires mastery of engineering plasticity introduction to engineering plasticity fundamentals with applications in metal forming limit analysis and energy absorption presents both fundamental theory on plasticity and emphasizes the latest engineering applications the title combines theory and engineering applications of plasticity elaborating on problem solving in real world engineering tasks such as in metal forming limit analysis of structures and understanding the energy absorption of structures and materials the five main parts of the book cover plastic properties of materials and their characterization fundamental theory in plasticity elastic plastic problems and typical solutions and rigid plastic problems under plane stress conditions this title provides students and engineers alike with the

fundamentals and advanced tools needed in engineering plasticity brings together plasticity theory with engineering applications and problem solving elaborates problem solving methods and demonstrates plasticity in various engineering fields covers the recent decades of research on metal forming and limit analysis includes energy absorption of new structures and materials where plasticity dominates analysis and design gives a systematic account of the theory of plasticity alongside its engineering applications

## **Plastic Bending**

1996

mechanical engineering an engineering discipline forged and shaped by the needs of the industrial revolution is once again asked to do its substantial share in the call for industrial renewal the general call is urgent as we face profound issues of productivity and competitiveness that require engineering solutions among others the mechanical engineering series features graduate texts and research monographs intended to address the need for information in contemporary areas of mechanical engineering the series is conceived as a comprehensive one that covers a broad range of concentrations important to mechanical engineering graduate education and research we are fortunate to have a distinguished roster of consulting editors on the advisory board each an expert in one of the areas of concentration the names of the consulting editors are listed on the facing page of this volume the areas of concentration are applied mechanics biomechanics computational mechanics dynamic systems and control energetics mechanics of materials processing production systems thermal science and tribology

## ***Applied Plasticity, Second Edition***

2010-07-07

this book concentrates upon the mathematical theory of plasticity and fracture as opposed to the physical

theory of these fields presented in the thermomechanical framework

## **Introduction to Engineering Plasticity**

2022-06-20

an all in one guide to the theory and applications of plasticity in metal forming featuring examples from the automobile and aerospace industries provides a solid grounding in plasticity fundamentals and material properties features models theorems and analysis of processes and relationships related to plasticity supported by extensive experimental data offers a detailed discussion of recent advances and applications in metal forming

## ***Applied Plasticity***

2013-03-09

explores the principles of plasticity most undergraduate programs lack an undergraduate plasticity theory course and many graduate programs in design and manufacturing lack a course on plasticity leaving a number of engineering students without adequate information on the subject emphasizing stresses generated in the material and its effect plasticity fundamentals and applications effectively addresses this need this book fills a void by introducing the basic fundamentals of solid mechanics of deformable bodies it provides a thorough understanding of plasticity theory introduces the concepts of plasticity and discusses relevant applications studies the effects of forces and motions on solids the authors make a point of highlighting the importance of plastic deformation and also discuss the concepts of elasticity for a clear understanding of plasticity the elasticity theory must also be understood in addition they present information on updated lagrangian and eulerian formulations for the modeling of metal forming and

machining topics covered include stress strain constitutive relations fracture anisotropy contact problems plasticity fundamentals and applications enables students to understand the basic fundamentals of plasticity theory effectively use commercial finite element fe software and eventually develop their own code it also provides suitable reference material for mechanical civil aerospace engineers material processing engineers applied mechanics researchers mathematicians and other industry professionals

## **The Thermomechanics of Plasticity and Fracture**

1992-05-21

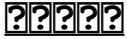
generalized plasticity deals with the plasticity of materials and structures it is an expansion of the unified strength theory to plasticity theory leading to a unified treatment of metal plasticity and plasticity of geomaterials generally it includes the metal plasticity for tresca materials huber von mises materials and twin shear materials and the geomaterial plasticity for mohr coulomb materials generalized twin shear materials and the unified strength theory

## **Combined Loadings in the Theory of Plasticity**

1981-12-31

plasticity theory is characterized by many competing and often incompatible points of view this book seeks to strengthen the foundations of continuum plasticity theory emphasizing a unifying perspective grounded in the fundamental notion of material symmetry steigmann s book offers a systematic framework for the proper understanding of established models of plasticity and for their modern extensions and generalizations particular emphasis is placed on the differential geometric aspects of the subject and their role in illuminating the conceptual foundations of plasticity

theory classical models together with several subjects of interest in contemporary research are developed in a unified format the book is addressed to graduate students and academics working in the field of continuum mechanics



1992

this important study focuses on the way in which structures and materials can be best designed to absorb kinetic energy in a controllable and predictable manner understanding of energy absorption of structures and materials is important in calculating the damage to structures caused by accidental collision assessing the residual strength of structures after initial damage and in designing packaging to protect its contents in the event of impact whilst a great deal of recent research has taken place into the energy absorption behaviour of structures and materials and significant progress has been made this knowledge is diffuse and widely scattered this book offers a synthesis of the most recent developments and forms a detailed and comprehensive view of the area it is an essential reference for all engineers concerned with materials engineering in relation to the theory of plasticity structural mechanics and impact dynamics important new study of energy absorption of engineering structures and materials shows how they can be designed to withstand sudden loading in a safe controllable and predictable way illuminating case studies back up the theoretical analysis

## **Engineering Plasticity**

2018-05-14

plasticity of metallic materials presents a rigorous framework for description of plasticity phenomena classic and recent models for isotropic and anisotropic materials new original analytical solutions to various elastic plastic boundary value problems and new

interpretations of mechanical data based on these recent models the book covers models for metals with both cubic and hexagonal crystal structures presents the mechanical tests required to determine the model parameters various identification procedures verification and validation tests and numerous applications to metal forming outlines latest research on plastic anisotropy and its role in metal forming presents characterization and validation tests for metals with various crystal structures compares the predictive capabilities of various models for a variety of loadings

## **Plasticity**

2014-10-23

in this book the classical rigid plastic model of deformed workpiece and the characteristic slipline method of analysis is assumed the rigid plastic solid assumption is deemed reasonable for the problems of technological plasticity with large scale plastic flow where small elastic stains are negligible along with classical results of the theory of plasticity the book includes many original analytical and numerical solutions of the problems of technological plasticity obtained by the authors in russia and unknown for most western readers the results of the analyses are given by analytical formulae and many graphs and tables so the book will be useful for the practical and research engineers it may also be used as a textbook by graduate students and engineers

## ***Generalized Plasticity***

2006-05-20

this book focuses on the plastic property of materials and the way in which structures made of such material behave under load it is intended for civil mechanical electro mechanical marine and aeronautical engineers for under graduate or post graduate courses or research and professionals in industry professor calladine from



long experience in teaching research and industry here delivers a readable and authoritative account of theory and applications he presents the classical perfect plasticity material as a model of irreversible mechanical behaviour using this perfect plasticity property to analyse a range of continuum structural problems and metal forming processes relevant to engineering practice

## ***A Course on Plasticity Theory***

2023-01-20

an important collection of review papers by internationally recognized experts on the broad area of the mechanics of solids

## ***Energy Absorption of Structures and Materials***

2003-10-31

the aim of plasticity theory is to provide a comprehensive introduction to the contemporary state of knowledge in basic plasticity theory and to its applications it treats several areas not commonly found between the covers of a single book the physics of plasticity constitutive theory dynamic plasticity large deformation plasticity and numerical methods in addition to a representative survey of problems treated by classical methods such as elastic plastic problems plane plastic flow and limit analysis the problem discussed come from areas of interest to mechanical structural and geotechnical engineers metallurgists and others the necessary mathematics and basic mechanics and thermodynamics are covered in an introductory chapter making the book a self contained text suitable for advanced undergraduates and graduate students as well as a reference for practitioners of solid mechanics

# **Plasticity of Metallic Materials**

2020-11-23

plasticity is concerned with understanding the behavior of metals and alloys when loaded beyond the elastic limit whether as a result of being shaped or as they are employed for load bearing structures basic engineering plasticity delivers a comprehensive and accessible introduction to the theories of plasticity it draws upon numerical techniques and theoretical developments to support detailed examples of the application of plasticity theory this blend of topics and supporting textbook features ensure that this introduction to the science of plasticity will be valuable for a wide range of mechanical and manufacturing engineering students and professionals brings together the elements of the mechanics of plasticity most pertinent to engineers at both the micro and macro levels covers the theory and application of topics such as limit analysis slip line field theory crystal plasticity sheet and bulk metal forming as well as the use of finite element analysis clear and well organized with extensive worked engineering application examples and end of chapter exercises

# **Problems of Technological Plasticity**

2013-10-22

classical plasticity is a well established domain of mechanics and engineering providing the basis for many engineering structural design manufacturing processes and natural phenomena new important characteristics are emerging in the interdisciplinary approach of micro meso and macro mechanics and through analysis experiments and computation the interaction of mechanics and materials scientists is introducing tremendous changes in the two disciplines so that the possibility of materials being processed on the microscale to achieve the desired macroscopic properties is rapidly approaching a comprehensive

overview on the latest developments in both macroplasticity and microplasticity theories their interactions and applications in various engineering disciplines such as solid mechanics structural analysis and geo mechanics materials science and technology and metal forming and machining is given in this volume case studies written by international experts focus on aspects such as the applications of plasticity in interdisciplinary and non conventional areas the 150 papers provide a current and useful reference source on the latest advances for both research workers and engineers in the various fields of plasticity

## ***Plasticity for Engineers***

2000-09-01

computational plasticity with 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 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 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 plates underground caves excavations strip foundations circular foundations slop underground structures of hydraulic power stations pumped storage power stations underground mining high velocity penetration of concrete structures ancient structures 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 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 department of civil engineering at xi an jiaotong university xi an china

## **Mechanics of Solids**

2016-05-24

the principal aim of this text is to encourage the development and application of numerical modelling techniques as an aid to achieving greater efficiency and optimization of metal forming processes the contents of this book have therefore been carefully planned to provide both an introduction to the fundamental theory of material deformation simulation and also a comprehensive survey of the state of the art of deformation modelling techniques and their application to specific and industrially relevant processes to this end leading international figures in the field of material deformation research have been invited to contribute chapters on subjects on which they are acknowledged experts the information in this book has been arranged in four parts part i deals with plasticity theory part ii with various numerical modelling techniques part iii with specific process applications and material phenomena and part iv with integrated computer systems the objective of part i is to establish the underlying theory of material deformation on which the following chapters can build it begins with a chapter which reviews the basic theories of classical plasticity and describes their analytical representations the second chapter moves on to look at the theory of deforming materials and shows how these expressions may be used in numerical techniques the last two chapters of part i provide a review of isotropic plasticity and anisotropic plasticity

# **Plasticity Theory**

2013-04-22

the surface coating field is a rapidly developing area of science and technology that offers new methods and techniques to control friction and wear new coating types are continually being developed and the potential applications in different industrial fields are ever growing ranging from machine components and consumer products to medical instruments and prostheses this book provides an extensive review of the latest technology in the field addressing techniques such as physical and chemical vapour deposition the tribological properties of coatings and coating characterization and performance evaluation techniques eleven different cases are examined in close detail to demonstrate the improvement of tribological properties and a guide to selecting coatings is also provided this second edition is still the only monograph in the field to give a holistic view of the subject and presents all aspects including test and performance data as well as insights into mechanisms and interactions thus providing the level of understanding vital for the practical application of coatings an extensive review of the latest developments in the field of surface coatings presents both theory and practical applications includes a guide for selecting coatings

## **Plasticity for Mechanical Engineers**

1962

adiabatic shear bands are found in a variety of metals and other materials they cause rapid weakening due to energy concentration into narrow regions of the material this is the very first book on this important topic and the only true introduction to the subject an enhanced and updated student friendly edition of the authors 1992 book adiabatic shear localization occurrence theories and applications this seminal text now includes essential further reading sections in some chapters it explains adiabatic shear bands in a

descriptive rather than a mathematical way with a quick reference section for readers wanting a more rapid introduction entirely comprehensive the reader can dip into the chapters as suits his or her course material or research if you are a postgraduate materials scientist engineer physicist metallurgist or indeed any researcher in materials that undergo rapid deformation and failure this text is not to be missed

## ***Basic Engineering Plasticity***

2012-12-02

in our present era of nanoscience and nanotechnology new materials are poised to take center stage in dramatically improving friction and wear behavior under extreme conditions compiled by two eminent experts self organization during friction advanced surface engineered materials and systems design details the latest advances and developments i

## **Advances in Engineering Plasticity and its Applications**

2012-12-02

metal forming formability simulation and tool design focuses on metal formability finite element modeling and tool design providing readers with an integrated overview of the theory experimentation and practice of metal forming the book includes formability and finite element topics including insights on plastic instability necking nucleation and coalescence of voids chapters discuss the finite element method including its accuracy reliability and validity and finite element flow formulation helping readers understand finite element formulations iterative solution methods friction and contact between objects and other factors the book s final sections discuss tool design for cold warm and hot forming processes examples of tools design guidelines and information related to tool materials lubricants finishes and tool failure are included as

well provides fundamental integrated knowledge on metal formability finite element topics and tool design outlines user perspectives on accuracy reliability and validity of finite element modeling discusses examples of tools their design guidelines tool lubricants and tool failure considers the role played by stress triaxiality and shear and introduces uncoupled ductile damage criteria includes applications worked examples and detailed techniques

## **Applied Mechanics Reviews**

1971

engineering plasticity focuses on certain features of the theory of plasticity that are particularly appropriate to engineering design topics covered range from specification of an ideal plastic material to the behavior of structures made of idealized elastic plastic material theorems of plastic theory and rotating discs torsion indentation problems and slip line fields are also discussed this book consists of 12 chapters and begins by providing an engineering background for the theory of plasticity with emphasis on the use of metals in structural engineering and the nature of physical theories the reader is then introduced to the general problem of how to set up a model of the plastic behavior of metal for use in analysis and design of structures and forming processes paying particular attention to the plastic deformation that occurs when a specimen of metal is stressed subsequent chapters explore the behavior of a simple structure made of elastic plastic material theorems of plastic theory rotating discs and indentation problems torsion slip line fields and circular plates under transverse loading are also considered along with wire drawing and extrusion and the effects of changes in geometry on structure this monograph is intended for students of engineering

# **Computational Plasticity**

2012-12-02

applied elasticity and plasticity is a comprehensive work that introduces graduate students and professionals in civil mechanical aeronautical and metallurgical engineering to the basic theories of elasticity plasticity and their practical applications based on experimental data of static tension tests of material several elastic and plastic stress strain relations are derived and commonly used yield criteria and strain hardening rules are discussed as well analysis of conventional deviatoric and mathematical stress and strain in two and three dimensions is presented analytical applications include torsion and bending of structural components subjected to various loadings thick walled cylindrical and spherical vessels subjected to internal and external pressures stress concentrations around holes stress intensity factors in structural components containing circular elliptical and many more concepts important for professionals and students alike

## **Numerical Modelling of Material Deformation Processes**

2012-12-06

ideal for those involved in designing sheet metal forming processes where the understanding of advances in plasticity theory is essential

## **Coatings Tribology**

2009-03-18

this book is a personal anthology of the author s utmost academic works and accomplishments with his former students and colleagues intended as an enduring record for the engineering community for many years to come the author s forty year professional career and



academic life journey is first briefly sketched in chapter 1 and more details are elaborated in three chapters that follow chapter 2 the first ten years at lehigh beginning to show chapter 3 twenty three years at purdue the highly productive years and chapter 4 seven years at uh the pursuit of excellence the author s specific academic contributions are documented in the following three chapters chapter 5 23 academic bulletins are selected to highlight his 10 major research areas chapter 6 23 academic masterpiece books are listed along with their respective peer review comments and chapter 7 academic publications include journal articles conference proceedings and symposiums and lectures and keynotes the book ends with the listing of all the author s 55 doctoral students dissertation titles in chapter 8 in 1975 at lehigh the author published a milestone treatise on limit analysis and soil plasticity in 1982 at purdue he published another pioneering work on plasticity in reinforced concrete in september 1999 the author was recruited by uh to take the deanship of the college of engineering to accomplish the noble mission to build the college to become one of the top 50 engineering schools by strengthening the faculty improving the facilities and increasing the enrollment over his seven years at uh a lot of progress was made in all these three areas the research program expanded facilities improved and enrollment increased

## **Introduction to Adiabatic Shear Localization**

2014-08-14

plasticity is concerned with the mechanics of materials deformed beyond their elastic limit a strong knowledge of plasticity is essential for engineers dealing with a wide range of engineering problems such as those encountered in the forming of metals the design of pressure vessels the mechanics of impact civil and structural engineering as well as the understanding of fatigue and the economical design of structures theory of plasticity is the most comprehensive reference on

the subject as well as the most up to date no other significant plasticity reference has been published recently making this of great interest to academics and professionals this new edition presents extensive new material on the use of computational methods plus coverage of important developments in cyclic plasticity and soil plasticity a complete plasticity reference for graduate students researchers and practicing engineers no other book offers such an up to date or comprehensive reference on this key continuum mechanics subject updates with new material on computational analysis and applications new end of chapter exercises plasticity is a key subject in all mechanical engineering disciplines as well as in manufacturing engineering and civil engineering chakrabarty is one of the subject s leading figures

## ***Self-Organization During Friction***

2006-09-18

fundamental guidance including concepts models and methodology for better understanding the dynamic behavior of materials and for designing for objects and structures under impact or intensive dynamic loading this book introduces readers to the dynamic response of structures with important emphasis on the material behavior under dynamic loadings it utilizes theoretical modelling and analytical methods in order to provide readers with insight into the various phenomena the content of the book is an introduction to the fundamental aspects which underpin many important industrial areas these areas include the safety of various transportation systems and a range of different structures when subjected to various impact and dynamic loadings including terrorist attacks presented in three parts stress waves in solids dynamic behaviors of materials under high strain rate and dynamic response of structures to impact and pulse loading introduction to impact dynamics covers elastic waves rate dependent behaviors of materials effects of tensile force inertial effects and more the book also features numerous case studies to aid in facilitating learning

the strength of the book is its clarity balanced coverage and practical examples which allow students to learn the overall knowledge of impact dynamics in a limited time whilst directing them to explore more advanced technical knowledge and skills considers both the dynamic behavior of materials and stress waves and the dynamic structural response and energy absorption emphasizing the interaction between material behavior and the structural response provides a comprehensive description of the phenomenon of impact of structures containing both fundamental issues of wave propagation and constitutive relation of materials and the dynamic response of structures under impact loads based on the authors research and teaching experience as well as updated developments in the field introduction to impact dynamics is the perfect textbook for graduate and postgraduate students and will work as a reference for engineers in the fields of solid mechanics automotive design aerospace mechanical nuclear marine and defense

## **Metal Forming**

2021-02-12

the application of computer aided design and manufacturing techniques is becoming essential in modern metal forming technology thus process modeling for the determination of deformation mechanics has been a major concern in research in light of these developments the finite element method a technique by which an object is decomposed into pieces and treated as isolated interacting sections has steadily assumed increased importance this volume addresses advances in modern metal forming technology computer aided design and engineering and the finite element method

## **Engineering Plasticity**

2016-10-13

more than six years ago several of rabotnov s close friends and colleagues from the ussr and usa decided to

contribute a volume on plasticity and failure of solids in honor of his 70th birthday the celebration was interrupted unexpectedly by his death on may 13 1985 at which time another decision was made still to publish the work but as a memorial volume as in any field of scientific endeavor research confronts the scientists with anomalies our chosen area is no exception the ways in which failure criteria and plasticity theory are combined can differ widely among the researchers they will never yield quite the same results each of the invited contributors has therefore been encouraged to express his views and to expound on his personal opinion the contributors are free of enumeration from the authority and or consensus of any scientific society or community what impedes scientific process is the esoteric tradition of accepting ideas and theories by consensus among members of societies and communities the absence of such a trend is refreshing the collaboration between the authors from the ussr and the usa had to be one of the contributing factors finally the editors wish to acknowledge the authors who have made the publication of this volume possible a c sib s t mileiko aj ishlinsky xi the late professor yuriy nickolaevich rabotnov february 24 1914 may 13 1985 xii scientific biography of the late academician yu n

## **Applied Elasticity and Plasticity**

2017-10-12

it is a mechanics book written for materials scientists it provides very simple basic principle written for audience with non mechanics background so that readers who plan to adopt and integrate the mechanics in their research areas can do it the smart way the book also has plenty examples on the simple applications of mechanics in various materials science areas in metallurgy in coating in design and in materials science in general this book is filling the gap between the concept of mechanics used in the mechanics world and the concept of mechanics outside mechanics world it is perfect for researchers outside mechanics especially in materials science who want to incorporate the

concept of mechanics in their works it is originally a script used by a research group in materials science with no mechanics background

## **Fundamentals of Engineering Plasticity**

2013-07-22

## **Plasticity, Limit Analysis, Stability And Structural Design: An Academic Life Journey From Theory To Practice**

2021-01-22

## **Theory of Plasticity**

2012-12-02

## **Introduction to Impact Dynamics**

2018-01-23

## **Metal Forming and the Finite-Element Method**

1989-03-09

## **Plasticity and failure behavior of solids**

2012-12-06

***Integration of Mechanics into  
Materials Science Research: A Guide  
for Material Researchers in  
Analytical, Computational and  
Experimental Methods***

2013

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