



**ELSEVIER INSIGHTS**



# ADIABATIC SHEAR LOCALIZATION

FRONTIERS AND ADVANCES

SECOND EDITION

Edited by  
**BRADLEY DODD • YILONG BAI**

# Adiabatic Shear Localization Second Edition Frontiers And Advances Elsevier Insights

**Bradley Dodd, Yilong Bai**



## **Adiabatic Shear Localization Second Edition Frontiers And Advances Elsevier Insights:**

Adiabatic Shear Localization Bradley Dodd,Yilong Bai,2012-05-22 Rev ed of Adiabatic shear localization Y Bai and B Dodd 1992 1st ed      **Adiabatic Shear Localization** Bradley Dodd,Yilong Bai,2012-05-22 Adiabatic shear localization is a mode of failure that occurs in dynamic loading It is characterized by thermal softening occurring over a very narrow region of a material and is usually a precursor to ductile fracture and catastrophic failure This reference source is the revised and updated version of the first detailed study of the mechanics and modes of adiabatic shear localization in solids Building on the success of the first edition the book provides a systematic description of a number of aspects of adiabatic shear banding The concepts and techniques described in this work can usefully be applied to solve a multitude of problems encountered by those investigating fracture and damage in materials impact dynamics metal working and other areas Specific chapters focus on energetic materials polymers bulk metal glasses and the mathematics of shear banding as well as the numerical modeling of them With its detailed coverage of the subject this book is of great interest to academics and researchers into materials performance as well as professionals Up to date coverage of the subject and research that has occurred over the past 20 years Each chapter is written on a different sub field of adiabatic shear by an acknowledged expert in the field Detailed and clear discussions of each aspect      **Introduction To Adiabatic Shear Localization (Revised Edition)** Bradley Dodd,Yilong Bai,2014-08-14 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      **Adiabatic Shear Localization** Yilong Bai,Bradley Dodd,1992-01-01 Adiabatic shear localization is a mode of failure that occurs in dynamic loading It is characterized by thermal softening occurring over a very narrow region of a material and is usually a precursor to ductile fracture and catastrophic failure This reference source is the first detailed study of the mechanics and modes of adiabatic shear localization in solids and provides a systematic description of a number of aspects of adiabatic shear banding The inclusion of the appendices which provide a quick reference section and a comprehensive collection of thermomechanical data allows rapid access and understanding of the subject and its phenomena The concepts and techniques described in this work can usefully be applied to solve a multitude of problems encountered by those investigating fracture and damage in materials impact dynamics metal working and other areas This reference book has come about in

response to the pressing demand of mechanical and metallurgical engineers for a high quality summary of the knowledge gained over the last twenty years While fulfilling this requirement the book is also of great interest to academics and researchers into materials performance      **Ballistic Impact and Adiabatic Shear Localization** Henry Andrew Grebe,1983

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