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Brittle Behavior 1-7 What Constitutes Failure? 1-8 Concept of Stress and the Types of Stresses 1-9 Concept of Strain and the Types of Strain 1-10 Units of Stress and Other Properties 1-11 Ductile vs. Brittle Behavior 1-12 The author received his B.S., M.S., and Ph.D. degrees from Drexel University, and his D.Sc. degree from Carnegie-Mellon University. Dieter is currently Dean of Engineering and Professor of Mechanical Engineering at the University of Maryland. Strength of Materials, E. Strength of materials. You're Reading a Free Preview Pages 91 to 100 are not shown in this preview. Shank Charles A. You're Reading a Free Preview Pages 19 to 36 are not shown in this preview. Physical metallurgy. 1. Bacon, D. 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After a career in industry with DuPont Engineering Research Laboratory, he became Head of the Metallurgical Engineering Department at Drexel University, where he later became Dean of Engineering. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior permission of McGraw-Hill Book Company (UK) Limited. British Library Cataloguing in Publication Data Dieter, George E., 2. Professor Dieter later joined the faculty of Carnegie-Mellon University, as Professor of Engineering and Director of the Processing Research Institute. - SI Metric Tests 13-6 The Yield Locus 3-7 Anisotropy in Yielding C3-8 Yield Surface and Normality 3-9 Octahedral Shear Stress and Shear Strain - Invariants of Stress and Strain 3-10 Plastic Stress-Strain Relations 3-11 Two-Dimensional Plasticity - Flow-Slip-Line Field Theory Part 2 Metallurgical Fundamentals 4 Plastic Deformation of Single Crystals 4-1 Introduction 4-2 Concepts of Crystal Geometry 4-3 Lattice Defects 4-4 Deformation by Slip 4-5 Slip in a Perfect Lattice 4-6 Slip by Dislocation Movement 4-7 Critical Resolved Shear Stress for Slip 4-8 Deformation of Single Crystals 4-9 Deformation of Face-Centered Cubic Crystals 4-10 Deformation by Twinning 4-11 Stacking Faults 4-12 Deformation Bands and Kink Bands 4-13 Microstrain Behavior 4-14 Strain Hardening of Single Crystals 5 Dislocation Theory 5-1 Introduction 5-2 Observation of Dislocations 5-3 Burgers Vector and the Dislocation Loop 5-4 Dislocations in the Face-Centered Cubic Lattice 5-5 Dislocations in the Hexagonal Close-Packed Lattice 5-6 Dislocations in the Body-Centered Cubic Lattice 5-7 Stress Fields and Energies of Dislocations 5-8 Forces on Dislocations 5-9 Forces between Dislocations 5-10 Dislocation Climb 5-11 Intersection of Dislocations 5-12 Jogs 5-13 Dislocation Sources 5-14 Multiplication of Dislocations 5-15 Dislocation-Point Defect Interactions 5-16 Dislocation Pile-Ups 6 Strengthening Mechanisms 6-1 Introduction 6-2 Grain Boundaries and Deformation 6-3 Strengthening from Grain Boundaries 6-4 Low-Angle Grain Boundaries 6-5 Yield-Point Phenomenon 6-6 Strain Aging 6-7 Solid-Solution Strengthening 6-8 Deformation of Two-Phase Aggregates 6-9 Strengthening from Fine Particles 6-10 Fiber Strengthening 6-11 Strengthening Due to Point Defects 6-12 Martensite Strengthening 6-13 Cold-Worked Structure 6-14 Strain Hardening 6-15 Annealing of Cold-Worked Metal 6-16 Bauschinger Effect 6-17 Preferred Orientation (Texture) 1031451847 Fracture CONTENTS IX 2417-1 Introduction 7-2 Types of Fracture in Metals 7-3 Theoretical Cohesive Strength of Metals 7-4 Griffith Theory of Brittle Fracture 7-5 Fracture of Single Crystals 7-6 Metallographic Aspects of Fracture 7-7 Fractography 7-8 Dislocation Theories of Brittle Fracture 7-9 Ductile Fracture 7-10 Notch Effects 7-11 Concept of the Fracture Curve 7-12 Fracture under Combined Stresses 7-13 Effect of High Hydrostatic Pressure on Fracture Part 3 Applications to Materials Testing 8 The Tension Test 8-1 Engineering Stress-Strain Curve 8-2 True Stress-True Strain Curve 8-3 Instability in Tension 8-4 Stress Distribution at the Neck 8-5 Ductility Measurement in Tension Test 8-6 Effect of Strain Rate on Flow Properties 8-7 Effect of Temperature on Flow Properties 8-8 Influence of Testing Machine on Flow Properties 8-9 Constitutive Equations 8-10 Further Consideration of Instability 8-11 Stress Relaxation Testing 8-12 Thermally Activated Deformation 8-13 Notch Tensile Test 8-14 Tensile Properties of Steel 8-15 Anisotropy of Tensile Properties 9 The Hardness Test 9-1 Introduction 9-2 Brinell Hardness 9-3 Meyer Hardness 9-4 Analysis of Indentation by an Indenter 9-5 Relationship between Hardness and the Flow Curve 9-6 Vickers Hardness 9-7 Rockwell Hardness Test 9-8 Microhardness Tests 9-9 Hardness-Conversion Relationships 9-10 Hardness at Elevated Temperatures 10 The Torsion Test 10-1 Introduction 10-2 Mechanical Properties in Torsion 10-3 Torsional Stresses for Large Plastic Strains 10-4 Types of Torsion Failures 10-5 Torsion Test vs. - SI Metric ed./adapted by David Bacon. (McGraw-Hill series in materials science and engineering) Bibliography: p. Includes indexes. ISBN 0-07-084187-XI. Series TA405.D53 1988620.1 '63 - dc 1988-10351 When ordering this title use ISBN 0-07-100406-8 Printed in Singapore, II. > - ABOUT THE AUTHOR George E. Dieter, Jr. Scanned by CamScanner The requested URL was not found on this server. You're Reading a Free Preview Pages 58 to 82 are not shown in this preview. Title, - Quantities 2 Stress and Strain Relationships for Elastic Behavior 17- VIII CONTENTS 3 Elements of the Theory of Plasticity 69 - 1 - - - - - (III Intr., (du - tion LUJ The Flow Curve J. - 1) True Stress and True Strain 3-4 (Yielding Criteria for Ductile Metals J. - 5 Combined - . . . Title 620.1 '63 Library of Congress Cataloging-in-Publication Data Dieter, George Ellwood. Mechanical metallurgy / George E. Dieter, Jr. - 1st ed. - J. Dieter University of Maryland Adapted by David Bacon Professor of Materials Science University of Liverpool McGraw-Hill Book Company London New York . He moved to the University of Maryland four years later. A former member of the National Materials Advisory Board, Professor Dieter is a fellow of the American Society for Metals, and a member of AAS, AIME, ASME, NSPE, and SME. v Preface to the Third Edition Preface to the Second Edition Preface to the First Edition List of Symbols Part 1 Mechanical Fundamentals CONTENTS XliX xvii, xxii Introduction 3t (George Ellwood), 1928-Mechanical metallurgy. You're Reading a Free Preview Pages 42 to 52 are not shown in this preview. Additionally, a 404 Not Found error was encountered while trying to use an ErrorDocument to handle the request.

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