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Materials Science and Engineering An Introduction

Materials Science and Engineering An Introduction

MATERIALS SCIENCE AND ENGINEERING AN INTRODUCTION Sixth Edition William D. Callister, Jr. The University of Utah John Wiley & Sons, Inc.

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are products of materials science and technology (MST). Briefly defined, materials science is the study of “stuff.” Materials science is the study of solid matter, inorganic and organic. Figures 1.1, 1.2, 1.3, and 1.4 depict how these materials are classified.

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Callister's Materials Science And Engineering was originally written by Professor Callister, and has now been adapted into an Indian edition by R. Balasubramaniam. This eBook presents readers with clear explanations of important concepts. It focuses on three main types of materials and composites, namely metals, ceramics, and polymers.

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Lecture Notes for MSE 2090-1

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The workshop on the future of materials science and materials engineering education, held in Arlington, Virginia on September 18 and 19, 2008, was sponsored by the National Science Foundation (NSF) under grant NSF-DMR 0826749 .

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Book Preface. In this Eighth Edition we have retained the objectives and approaches for teaching materials science and engineering that were presented in previous editions.

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This text provides an understanding of the relationship between structure, processing, and properties of materials. By selecting the appropriate topics from this wealth of material, instructors can emphasize materials, provide a general overview, concentrate on mechanical behavior, or focus on physical properties.

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