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and Engineering of Materials Donald R. Askeland,1984 **Materials science and engineering: an introduction (8th ed.)**. William D. Callister (Jr.),2009 **Materials Science and Engineering** William D. Callister (Jr.),2012 *Solutions Manual for Materials Science for Engineers* Lawrence H. Van Vlack,1970 Introduction to Materials Science and Engineering Yip-Wah Chung,2006-12-13 Our civilization owes its most significant milestones to our use of materials Metals gave us better agriculture and eventually the industrial revolution silicon gave us the digital revolution and we re just beginning to see what carbon nanotubes will give us Taking a fresh interdisciplinary look at the field Introduction to Materials Science and Engineering emphasizes the importance of materials to engineering applications and builds the basis needed to select modify or create materials to meet specific criteria The most outstanding feature of this text is the author s unique and engaging application oriented approach Beginning each chapter with a real life example an experiment or several interesting facts Yip Wah Chung wields an expertly crafted treatment with which he entertains and motivates as much as he informs and educates He links the discipline to the life sciences and includes modern developments such as nanomaterials polymers and thin films while working systematically from atomic bonding and analytical methods to crystalline electronic mechanical and magnetic properties as well as ceramics corrosion and phase diagrams Woven among the interesting examples stories and Chinese folk tales is a rigorous yet approachable mathematical and theoretical treatise This makes Introduction to Materials Science and Engineering an effective tool for anyone needing a strong background in materials science for a broad variety of applications **Materials Science and Engineering** Callister,2017-12-04

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