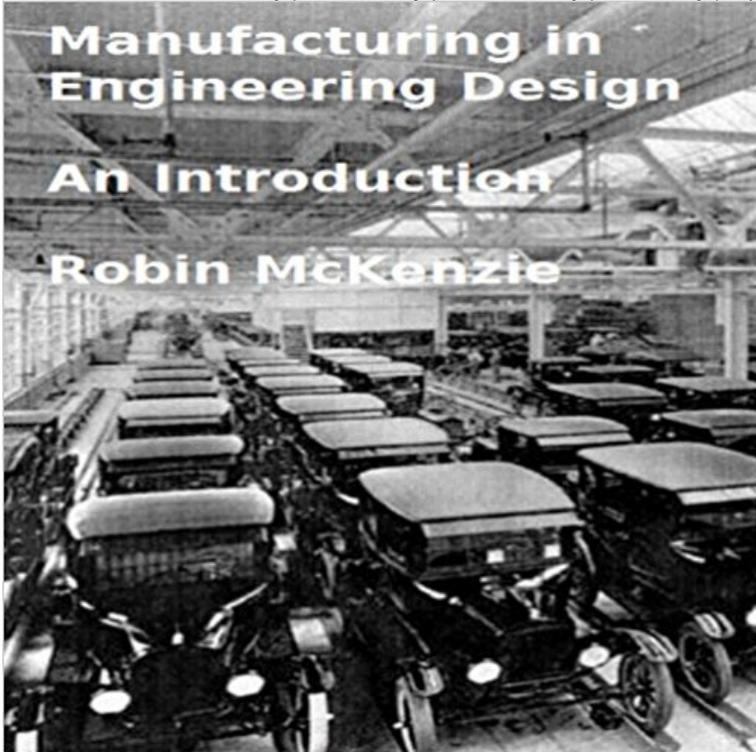


Manufacturing in Engineering Design, An Introduction



The course, Engineering Design on which this book is based, came about when the author was being interviewed to teach at Cambridge Ruskin International College, based at Anglia Ruskin University, Cambridge. Almost as a throw away comment came this request: We have this course in engineering. You're an engineer, I'm sure you can do it! Thus began a journey that led to this book. This wide ranging book in technology and its history has in mind two main groups of people. First, for students primarily at foundation level from a range of disciplines: architecture, computer science based studies, as well as traditional engineering subjects. It complements other mathematics and physics courses taken by computer scientists and engineers, or more creative disciplines taken by architects and other design based courses. A second group is for a more general audience who wish to have an appreciation for engineering and its history without the mathematics or physics (however important these are) that can frighten off the reader or lose the reader in the mathematical details. In essence, this book provides an introduction to technology and its history that the author, looking back, would have liked to have been given at the start of his engineering studies many years ago. As a result the author has spent a life-time learning about these subject areas either from professional or personal interest. This book is the fourth of a series of books on Engineering Design, covers the following subject areas⁴. Manufacturing: history and categories (this book) We look at how things are made, its history and how we might differentiate different types of manufacturing operations. This is set within a more general social and technological history of the Industrial Revolution, the time when there were profound changes from about 1780

onwards in Britain, then in Europe and the United States, and then in the rest of the world. This strand of telling the story of these changes is told from time to time within the book.

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