



Intelligent Energy Field Manufacturing: Interdisciplinary Process Innovations

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Edited by prominent researchers and with contributions from experts in their individual areas, **Intelligent Energy Field Manufacturing: Interdisciplinary Process Innovations** explores a new philosophy of engineering. An in-depth introduction to Intelligent Energy Field Manufacturing (EFM), this book explores a fresh engineering methodology that not only integrates but goes beyond methodologies such as Design for Six Sigma, Lean Manufacturing, Concurrent Engineering, TRIZ, green and sustainable manufacturing, and more. This book gives a systematic introduction to classic non-mechanical manufacturing processes as well as offering big pictures of some technical frontiers in modern engineering.

The book suggests that any manufacturing process is actually a process of injecting human intelligence into the interaction between material and the various energy fields in order to transfer the material into desired configurations. It discusses technological innovation, dynamic M-PIE flows, the generalities of energy fields, logic functional materials and intelligence, the open scheme of intelligent EFM implementation, and the principles of intelligent EFM. The book takes a highly interdisciplinary approach that includes research frontiers such as micro/nano fabrication, high strain rate processes, laser shock forming, materials science and engineering, bioengineering, etc., in addition to a detailed treatment of the so called "non-traditional" manufacturing processes, which covers waterjet machining, laser material processing, ultrasonic material processing, EDM/ECM, etc.

Filled with illustrative pictures, figures, and tables that make technical materials more absorbable, the book cuts across multiple engineering disciplines. The majority of books in this area report the facts of proven knowledge, while the behind-the-scenes thinking is usually neglected. This book examines the big picture of manufacturing in depth before diving into the details of an individual process, demonstrating how innovations are achieved. It lowers barriers to technical innovation, meets new engineering challenges, and systematically introduces manufacturing processes.

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Exactly why? Because this Intelligent Energy Field Manufacturing: Interdisciplinary Process Innovations is an unordinary book that the inside of the e-book waiting for you to snap the idea but latter it will surprise you with the secret the idea inside. Reading this book close to it was fantastic author who also write the book in such remarkable way makes the content inside easier to understand, entertaining method but still convey the meaning completely. So , it is good for you because of not hesitating having this any more or you going to regret it. This book will give you a lot of rewards than the other book have got such as help improving your talent and your critical thinking technique. So , still want to hesitate having that book? If I ended up you I will go to the publication store hurriedly.

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