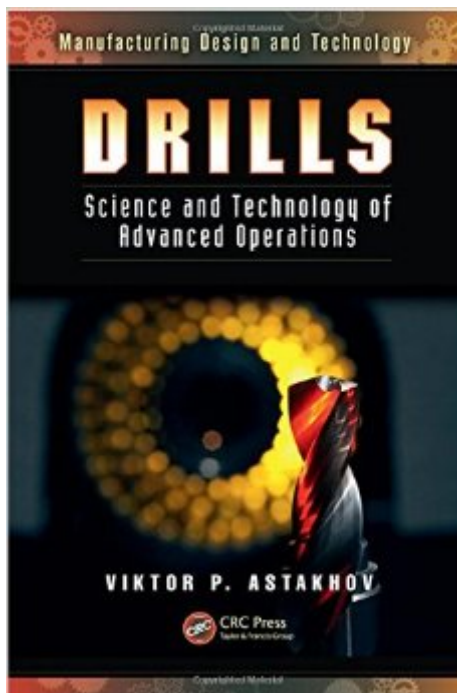


The book was found

Drills: Science And Technology Of Advanced Operations (Manufacturing Design And Technology)



Synopsis

In a presentation that balances theory and practice, *Drills: Science and Technology of Advanced Operations* details the basic concepts, terminology, and essentials of drilling. The book addresses important issues in drilling operations, and provides help with the design of such operations. It debunks many old notions and beliefs while introducing scientifically and technically sound concepts with detailed explanations. The book presents a nine-step drilling tool failure analysis methodology that includes part autopsy and tool reconstruction procedure. A special feature of the book is the presentation of special mechanisms of carbide (e.g. cobalt leaching) and polycrystalline (PCD) tool wear and failure presented and correlated with the tool design, manufacturing, and implementation practice. The author also introduces the system approach to the design of the drilling system formulating the coherency law. Using this law as the guideline, he shows how to formulate the requirement to the components of such a system, pointing out that the drilling tool is the key component to be improved. Teaching how to achieve this improvement, the book provides the comprehensive scientific and engineering foundations for drilling tool design, manufacturing, and applications of high-performance tools. It includes detailed explanations of the design features, tool manufacturing and implementation practices, metrology of drilling and drilling tools, and the tool failure analysis. It gives you the information needed for proper manufacturing and selection of a tool material for any given application.

Book Information

Series: Manufacturing Design and Technology

Hardcover: 888 pages

Publisher: CRC Press; 1 edition (April 8, 2014)

Language: English

ISBN-10: 1466584343

ISBN-13: 978-1466584341

Product Dimensions: 7.2 x 2.2 x 10 inches

Shipping Weight: 3.8 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (1 customer review)

Best Sellers Rank: #391,790 in Books (See Top 100 in Books) #45 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Drilling Procedures](#) #71 in [Books > Crafts, Hobbies & Home > Home Improvement & Design > How-to & Home Improvements > Power Tools](#) #223 in [Books > Engineering & Transportation > Engineering >](#)

Customer Reviews

This book has everything you need to know about drills and the drilling process. I was looking for information on drill geometry, materials and the drilling process. I thought I would end up with a couple of different books. But it is all in here. I fully recommend this book to anyone involved in the making or using drills.

[Download to continue reading...](#)

Drills: Science and Technology of Advanced Operations (Manufacturing Design and Technology)
Daily Learning Drills, Grade 5 (Brighter Child: Daily Learning Drills) Re-Engineering the
Manufacturing System: Applying The Theory of Constraints (Manufacturing Engineering and
Materials Processing Series, Vol. 47) "Faster, Better, Cheaper" in the History of Manufacturing:
From the Stone Age to Lean Manufacturing and Beyond Operations Management: Integrating
Manufacturing and Services 5e with Student CD and PowerWeb Manufacturing Planning and
Control for Supply Chain Management (McGraw-Hill/Irwin Series in Operations and Decision
Sciences) Basics of Lean Operations Management Principles with Applications from Manufacturing,
Service, AND Healthcare Industries Operations Management in the Supply Chain: Decisions and
Cases (McGraw-Hill/Irwin Series, Operations and Decision Sciences) Operations Management:
Contemporary Concepts and Cases (Mcgraw-Hill/Irwin Series Operations and Decision Sciences)
Operations and Supply Chain Management: The Core (Book Only) (McGraw-Hill/Irwin Series
Operations and Decision Sciences) Production and Operations Analysis (McGraw-Hill/Irwin Series
Operations and Decision Sciences) Operations and Supply Management: The Core (Operations
and Decision Sciences) Operations Management (McGraw-Hill Series in Operations and Decision
Sciences) Operations Management (Operations and Decision Sciences) Managing Operations
Across the Supply Chain (McGraw-Hill/Irwin Series in Operations and Decision Sciences)
Operations & Supply Management wStudent DVD Rom (McGraw-Hill/Irwin Series Operations and
Decision Sciences) Loose-leaf for Operations Management (The McGraw-Hill Series in Operations
and Decision Sciences) Managing Front Office Operations with Answer Sheet (AHLEI) (9th Edition)
(AHLEI - Front Office Operations) Advanced Software Testing - Vol. 3, 2nd Edition: Guide to the
ISTQB Advanced Certification as an Advanced Technical Test Analyst Advanced Software Testing -
Vol. 2, 2nd Edition: Guide to the ISTQB Advanced Certification as an Advanced Test Manager

[Dmca](#)