



# Drills: Science and Technology of Advanced Operations (Manufacturing Design and Technology)

*Viktor P. Astakhov*

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## **Drills: Science and Technology of Advanced Operations (Manufacturing Design and Technology)**

Viktor P. Astakhov

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.

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