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Cryogenic Treatment of Cubic Boron Nitride (CBN) Cutting Inserts

By Swamini Chopra

LAP Lambert Academic Publishing. Taschenbuch. Condition: Neu. Neuware - With the advent of technology; newer materials are being introduced into the market with superior properties. These materials are extremely tough and are usually categorized as difficult-to-cut materials. Cubic Boron Nitride (CBN) is generally used to machine such materials. But during machining; the cutting tool is subjected to various mechanical, thermal, chemical as well as tribological conditions which are unavoidable. CBN being brittle in nature is more prone to abrasion wear, followed by disintegration at high cutting temperatures. This causes loss of tool wear resistance and imbalance the economy owing to more number of re-sharpening or tool failures. This problem can be tackled by cryogenic treatment of CBN inserts which are used for hard turning. Cryogenic Treatment is a recent advancement capturing rapid attention in order to improve the tool life. Thus, the effect of cryogenic treatment on the performance of CBN cutting inserts is an unexplored domain that needs to be tapped appropriately in order to extract maximum possible potential of CBN as cutting tool material in hard turning. 92 pp. Englisch.



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Reviews

This book is definitely not simple to begin on studying but quite fun to see. I actually have read and that i am sure that i will gonna read through yet again once again in the foreseeable future. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- **Brennan Koelpin**

Comprehensive guide! Its this type of very good read through. It is actually writter in simple words and phrases rather than difficult to understand. It is extremely difficult to leave it before concluding, once you begin to read the book.

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