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Blast Cleaning Technology

Blast cleaning is one of the most frequently utilised surface treatment-method in modern industry. Tilghman’s patent on "Improvement in cutting and engraving stone, metal, glass etc." (1870) was the starting point of the utilisation of blast cleaning for industrial processes. Early applications included applications in the foundry industry, steel making industry, and corrosion protection industry. Today’s applications include the use for micro-machining, polishing, maintenance and surface preparation for coating applications. Recent advanced applications in the machining industry include blast cleaning assisted laser milling.

The book is the first comprehensive monograph in this subject. It provides a practical and comprehensive review of the technology. This book systematically and critically reviews the theory behind the technology, the state of current blast cleaning, surface quality aspects and the effects of blast cleaning on the performance of applied coatings.

Blast cleaning is one of the most frequently used surface treatment methods in modern industry. The first comprehensive monograph on the subject, this book provides a comprehensive review of the technology, with an emphasis on practical applications. The author first systematically and critically reviews the theory behind blast cleaning. Next, readers learn about the state of current blast cleaning, surface quality aspects, and the effects of blast cleaning on the performance of applied coatings. Readers also discover many of today's cutting-edge applications, including micro-machining, polishing, maintenance, and surface preparation for coating applications. Finally, the author describes recent advanced applications in the machining industry, including blast cleaning-assisted laser milling. This is the right book for industrial engineers and other professionals who need to know the how's and why's of blast cleaning.



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