



# Machining of Stainless Steels and Super Alloys: Traditional and Nontraditional Techniques

By Helmi A. Youssef

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## Machining of Stainless Steels and Super Alloys: Traditional and Nontraditional Techniques By Helmi A. Youssef

Provides a comprehensive description for machining technologies of stainless steels and super alloys with consideration to current industrial applications.

- Presents current and recent developments related to traditional and nontraditional machining techniques of stainless steels and super alloys
- Arranges types of stainless steels and super alloys in qualitative and quantitative form, as related to their machining characteristics, providing the reader with information regarding optimum working condition for each material
- Proposes a 10-level machinability chart to rank important grades of stainless steels
- Arranges the machinability rating of the most commonly used super alloys in a descending order
- Presents non-traditional machining processes along with some hybrid processes which have been applied successfully to stainless steels and super alloys

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### **Editorial Review**

#### About the Author

**Professor Helmi A. Youssef**, born in August, 1938 in Alexandria, Egypt, has acquired his B.Sc. in Production Engineering, Alexandria University in 1960. He completed then his scientific building in Carolo-Welhelmina, TH Braunschweig in Germany, during the period 1961-1967, where he acquired his Dipl.-Ing., and Dr.-Ing. Degree in the domain of Non-traditional Machining. In Alexandria University, he has been promoted to associate, then since 1978 to full professor. In the period 1995-1998, professor Youssef was the chairman of the Production Engineering Dept., and since 1989, he was a member of the scientific committee for promotion of professors in Egyptian Universities. Between 1975 and 1998, he was a visiting professor in many Arab, and German Universities. He established his own laboratories, and supervised many M.Sc. and Ph D theses. Professor Youssef has organized and participated in international conferences. He has published many scientific papers in specialized journals, and authored books in his fields of specialization; two of which have been published by CRC, on machining and manufacturing technologies, in 2008, and 2011, respectively. Currently, Prof. Youssef is Emeritus Professor in PED, Alexandria University.

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