



Scratching of Materials  
and Applications

Sujeet K. Sinha

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# Scratching of Materials and Applications, Volume 51 (Tribology and Interface Engineering)

By Sujeeet K. Kumar Sinha

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## Scratching of Materials and Applications, Volume 51 (Tribology and Interface Engineering) By Sujeeet K. Kumar Sinha

The surface characterizations of engineering materials effects their scratch/abrasion/Mar resistance, coating adhesion/strength, and abrasive wear mechanism.

**Scratching of Materials and Applications** has chapters devoted to direct industrial application and contains some of the important works that are being conducted. Scratch testing of materials has grown extensively since the earlier days of the Mohs Scale for ranking minerals according to their relative scratch resistance. This test has been used on metals, ceramics, glasses, polymers and coatings of various types and thicknesses.

The chapters are grouped according to the type of the engineering materials used. The beginning chapters relate mostly to bulk polymers, which are followed by different types of coatings (hard wear resistant to the diamond-like carbon coatings) and finally, chapters on the application of scratching technique to metals and ceramics are included at the end of the book. Thus, the book covers a fairly wide spectrum of engineering materials which are useful to engineers and researchers.

- \* Balances theoretical science with practical application
- \* Demonstrates real-life applications within industry
- \* Written experts in the fields of materials, tribology and surface mechanics

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**Scratching of Materials and Applications, Volume 51 (Tribology and Interface Engineering)** By Sujeeet K. Kumar Sinha **Bibliography**

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### **Editorial Review**

#### **About the Author**

Dr. Sujeeet K. Sinha is currently working as an Assistant Professor in the Department of Mechanical Engineering, NUS. He obtained his

BSc(Eng.) (Metallurgical Engineering) from the National Institute of Technology, Jamshedpur, India in 1988 and after working for a brief period in industry, he joined the Indian Institute of Science, Bangalore for graduate studies obtaining a Masters degree in Mechanical Engineering in 1991. He received his PhD degree from Imperial College, UK in 1994 and an MBA from the University of British Columbia, Canada in 1999. Dr. Sinha has worked as a post-doctoral researcher at the National Institute of Science and Technology (NIST), Maryland, USA and at the National Institute of Advanced Industrial Science & Technology (AIST), Tsukuba, Japan. He has published widely in tribology journals, conference proceedings and books, and, currently is on the editorial board of Tribology International. He has edited or co-edited two special issues of Tribology International and one book. Dr. Sinha has co-chaired one international conference and been invited to present technical talks at three international conferences. Dr. Sinha's main research interests include wear and friction studies of polymers and their composites, thin polymer coatings and hard coatings on metallic and non-metallic surfaces. Personal homepage: <http://www.geocities.com/sujeet2020>

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