

Scratching of Materials and Applications, Volume 51



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The surface characterizations of engineering materials effect 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. It balances theoretical science with practical application and demonstrates real-life applications within industry. It is written by experts in the fields of materials, tribology, and surface mechanics.

作者介绍:

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