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Thus they have led to the appearance of the new field of nanotribology and nanomechanics (Bhushan, 2007). The term tribology was introduced in 1964. Until 1980s the field was dominated by macroscopic friction and wear studies which aimed at prolongation of the wear
lifetime of components and reduce friction losses.

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AFM has been used for nanoscale characterization and wear studies [23], [24]. 3. Measurement techniques in nanotribology and nanomechanics. The surface force apparatus, scanning
tunneling microscopes, and atomic force microscopes are used widely in nanotribological and nanomechanical studies [34], [1], [20], [21].

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