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Interferometry and scanning microscopy in asperity measurement of biomedical surfaces

ABSTRACT. Bioengineering has become an important branch of engineering science, and like in any engineering process, measurement and accuracy analysis are critical aspects. Functional surfaces for biomedical applications need to be measured at the nanoscale, and their topography (not just a 2D profile) similarly analysed. This paper gives a short overview of the measurement methods applied in bioengineering, their advantages and disadvantages, and their abilities and limitations.

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