



# Scanning Force Microscopy of Polymers (Springer Laboratory)

*G. Julius Vancso, Holger Schönherr*

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Scope of the Book Synthetic and natural polymers exhibit a complex structural and morphological hierarchy on multiple length scales [1], which determines their performance. Thus, research aiming at visualizing structure and morphology using a multitude of microscopy techniques has received considerable attention since the early days of polymer science and technology. Various well-developed techniques such as optical microscopy and different forms of electron microscopy (Scanning Electron Microscopy, SEM; Transmission Electron Microscopy, TEM; Environmental Scanning Electron Microscopy, ESEM) allow one to view polymeric structure at different levels of magnification. These classical techniques, and their applications to polymers, are well documented in the literature [2, 3]. The invention of Scanning Tunneling Microscopy (STM) inspired the development of Atomic Force Microscopy (AFM) and other forms of scanning proximity microscopes in the late 1980s [4, 5]. AFM, unlike STM, can be used to image non-conducting specimens such as polymers. In addition, AFM imaging is feasible in liquids, which has several advantages. Using liquid imaging cells the forces between specimen and AFM probe are drastically reduced, thus sample damage is prevented. In addition, the use of water as imaging medium opened up new applications aiming at imaging, characterizing, and analyzing biologically important systems.

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