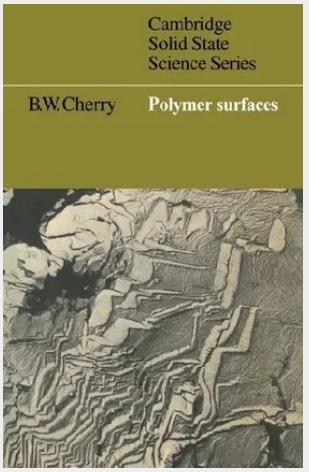
Cherry

Polymer Surfaces

The aim of this 1981 book, designed for senior undergraduates, postgradutes and professionals, is to draw together in one unified presentation a number of the phenomena associated with polymer surfaces. The author begins by describing the theory of surface tension in terms of intermolecular forces and then goes on to consider the practical problem of the factors involved when a liquid wets a polymeric surface and forms a bond to it. An account of polymeric adhesives and their different spheres of application follows, and an examination of the mechanism of failure of adhesive joints leads to a discussion of joint design for optimum strength and environmental resistance. A chapter on friction is closely related to that on adhesion, and the final chapter is devoted to specific frictional mechanisms associated with high hysteresis polymers as well as an introductory discussion of wear.

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