

## Contents

<b>Introduction, by Sir Sam Edwards</b>	<b>ix</b>
<b>I Geography and explorations</b>	<b>1</b>
<b>II Mobile borders: the dynamics of wetting (or dewetting)</b>	<b>5</b>
1 Dynamics of partial wetting	6
2 Complete wetting	11
3 Molecular features	12
<b>III Decorated borders: slippage between a solid and a polymer melt</b>	<b>17</b>
<b>IV Principles of adhesion</b>	<b>43</b>
1 The electrostatic model of adhesion	46
2 Fracture energy of glassy polymers	49
3 Dissipation enhanced by flexible connectors	53
4 Far field contributions to the adhesive energy	65
5 Extension to ‘tack’	74
<b>V Polymer/polymer welding</b>	<b>79</b>
1 Healing of an A/A interface	82
2 A/B interfaces	91

Cambridge University Press

0521020352 - Soft Interfaces: The 1994 Dirac Memorial Lecture

P. G. de Gennes

Table of Contents

[More information](#)

---

## *Contents*

<b>VI Conclusions</b>	<b>97</b>
1 Open problems	97
2 Two remarks on style	104
<b>Appendix Drag on a tethered chain moving in a polymer melt</b>	<b>107</b>
Remarks	113
<b>References</b>	<b>115</b>