

## Contents

<i>Preface</i>	<i>page ix</i>
<b>1 Background to the Subject</b>	<b>1</b>
<b>2 Surface Engineering Basics</b>	<b>4</b>
<b>3 Surface Engineering with Diffusion Technologies</b>	<b>35</b>
<b>4 Surface Engineering with Deposition Technologies</b>	<b>116</b>
<b>5 Surface Engineering by Other Means</b>	<b>231</b>
<b>6 Surface Degradation and Its Evaluation</b>	<b>269</b>
<b>7 Surface Engineering for Cutting Tools</b>	<b>324</b>
<b>8 Surface Engineering for Automotive Engine Components</b>	<b>387</b>
<b>9 Surface Engineering for Gas Turbine Engines (GTEs)</b>	<b>423</b>
<b>10 Surface Engineering for Bio-Medical Implants</b>	<b>449</b>
<b>Appendix A – Phase Diagrams</b>	<b>481</b>
<i>Index</i>	<i>489</i>
<i>Nomenclature</i>	<i>497</i>