

# Contents

Preface	<i>page ix</i>
<b>1 Geochemical models</b>	1
<b>2 Modeling tools</b>	9
<b>3 Rate equations</b>	36
<b>4 Chemical reactors</b>	56
<b>5 Molecular kinetics</b>	79
<b>6 Surface kinetics</b>	102
<b>7 Diffusion and advection</b>	128
<b>8 Quasi-kinetics</b>	156
<b>9 Accretion and transformation kinetics</b>	182
<b>10 Pattern formation</b>	205
References	210
Index	228