

# CONTENTS

## PART A Theory

- CHAPTER 1 THEORY OF EXAFS** 3  
*Edward A. Stern*
- CHAPTER 2 THEORY OF XANES** 53  
*P. J. Durham*

## PART B Instrumental and Data Analysis

- CHAPTER 3 DESIGN OF AN EXAFS EXPERIMENT** 87  
*Steven M. Heald*
- CHAPTER 4 EXAFS WITH SYNCHROTRON RADIATION** 119  
*Steven M. Heald*
- CHAPTER 5 LABORATORY EXAFS FACILITIES** 163  
*D. C. Koningsberger*
- CHAPTER 6 DATA ANALYSIS** 211  
*D. E. Sayers and B. A. Bunker*

## PART C Applications

- CHAPTER 7 BIOCHEMICAL APPLICATION OF X-RAY  
ABSORPTION SPECTROSCOPY** 257  
*Stephen P. Cramer*

<b>CHAPTER 8</b>	<b>CATALYSIS</b>	<b>321</b>
	<i>R. Prins and D. C. Koningsberger</i>	
<b>CHAPTER 9</b>	<b>AMORPHOUS AND LIQUID SYSTEMS</b>	<b>373</b>
	<i>E. D. Crozier, J. J. Rehr, and R. Ingalls</i>	
<b>CHAPTER 10</b>	<b>SEXAFS: EVERYTHING YOU ALWAYS WANTED TO KNOW ABOUT SEXAFS BUT WERE AFRAID TO ASK</b>	<b>443</b>
	<i>Joachim Stöhr</i>	
<b>CHAPTER 11</b>	<b>XANES SPECTROSCOPY</b>	<b>573</b>
	<i>A. Bianconi</i>	
	<b>INDEX</b>	<b>663</b>