

Table of Contents

Preface	V
Authors	VII

Part A Basics

1. Introduction.....	3
<i>Christian U. Grosse</i>	
2. History and Fundamentals	11
<i>Masayasu Ohtsu</i>	
3. Sensors and Instruments	19
<i>Masayasu Ohtsu</i>	
4. Parametric AE Analysis.....	41
<i>Tomoki Shiotani</i>	
5. Signal-Based AE Analysis.....	53
<i>Christian U. Grosse, Lindsay M. Linzer</i>	
6. Source Localization	101
<i>Jochen H. Kurz, Stefan Köppel, Lindsay Linzer, Barbara Schechinger, Christian U. Grosse</i>	
7. Source Mechanisms.....	149
<i>Masayasu Ohtsu</i>	
8. Moment Tensor Analysis.....	175
<i>Masayasu Ohtsu</i>	

Part B Applications

9. General Remarks on Applications	203
<i>Masayasu Ohtsu</i>	
10. AE in Concrete	211
<i>Masayasu Ohtsu</i>	
11. Acoustic Emission in Study of Rock Stability	239
<i>Gerd Manthei, Jürgen Eisenblätter</i>	
12. AE in Wood	311
<i>Eric N. Landis</i>	
13. Superstructures	323
<i>Mitsuhiko Shigeishi</i>	
14. Substructures	341
<i>Tomoki Shiota</i>	
15. Wireless AE techniques	367
<i>Christian U. Grosse</i>	
16. Opportunities, Limitations, Accuracy and Skill	383
<i>Thomas Vogel, Barbara Schechinger</i>	
Synonyms and often used Abbreviations	397
Index	399