

Contents

| | |
|---|------------|
| Preface | vii |
| Contributors | xi |
| Chapter 1 Alumina | 1 |
| Robert H. Doremus | |
| Chapter 2 Mullite | 27 |
| David J. Duval, Subhash H. Risbud, and James F. Shackelford | |
| Chapter 3 The Sillimanite Minerals: Andalusite, Kyanite, and Sillimanite | 41 |
| Richard C. Bradt | |
| Chapter 4 Aluminates | 49 |
| Martin C. Wilding | |
| Chapter 5 Quartz and Silicas | 71 |
| Lilian P. Davila, Subhash H. Risbud, and James F. Shackelford | |
| Chapter 6 Refractory Oxides | 87 |
| Jeffrey D. Smith and William G. Fahrenholtz | |
| Chapter 7 Clays | 111 |
| William G. Fahrenholtz | |
| Chapter 8 Concrete and Cement | 135 |
| Mariano Velez | |
| Chapter 9 Lead Compounds | 151 |
| Julie M. Schoenung | |

| | |
|----------------------------------|------------|
| Chapter 10 Zirconia | 169 |
| Olivia A. Graeve | |
| Index | 199 |