

Contents

Preface.....ix

Acknowledgments xiii

Editor.....xv

Chapter Contributors..... xvii

1. Manufacturing Excellence in Ceramic Industry 1
Mithugopal Mandal and Debasish Sarkar

2. Particle Management 37
Debasish Sarkar

3. Transparent Ceramics 71
Samuel Paul David and Debasish Sarkar

4. Porous Ceramics..... 101
Samuel Paul David and Debasish Sarkar

5. Ceramic Coatings..... 133
K. Sarath Chandra and Debasish Sarkar

6. Refractories and Failures 167
K. Sarath Chandra and Debasish Sarkar

7. Whiteware and Glazes 215
Partha Saha and Debasish Sarkar

8. Glass Processing and Properties 247
Susanta Basu and Debasish Sarkar

9. Miniaturization of Complex Ceramics 283
Partha Saha and Debasish Sarkar

10. Structural and Functional Prototypes..... 321
Sangeeta Adhikari and Debasish Sarkar

Summary 355

Index 357