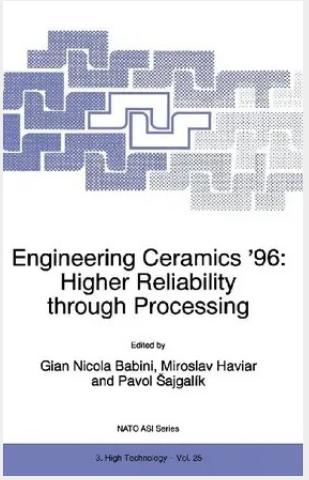
Babini / Haviar / Sajgalík

Engineering Ceramics '96: Higher Reliability through Processing



Despite the significant progress, which has been made in developing of ceramic materials desired for engineering applications, their mass production is still not on expected level. Among the key factors hindering higher exploitation of these materials the problems in processing were identified. The processing comprises powder production, mixing techniques, forming, and sintering. All of them are equally important and all of them can introduce defects into the material. Besides improvement in processing, the properties of ceramic materials can be considerably improved by the creation of composites. Composites formed at micro or macro level are able to form more flaw-tolerant material. Considerable research activities, working on above mentioned phenomena are in progress at industrial laboratories as well as other research centres. This volume presents the contributions to the Advanced Research Workshop "Engineering Ceramics '96" with 65 participants from 21 countries held on 12th - 15th May 1996 at Smolenice Castle, Slovakia, the conference site of Slovak Academy of Sciences. The book covers research activities on engineering ceramic materials and gives an overview with respect to recent developments.

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