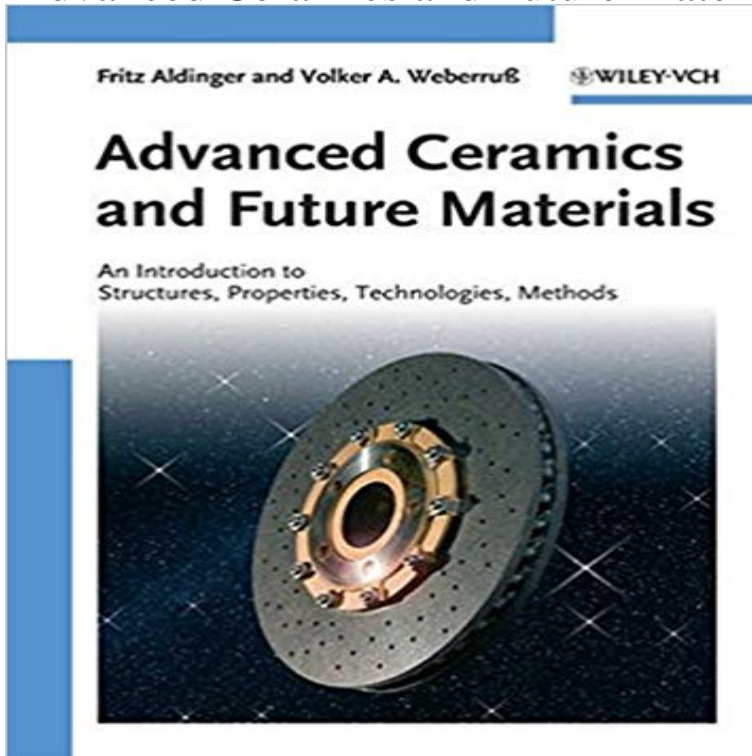


Advanced Ceramics and Future Materials



Starting out from the fundamentals, this book covers the chemistry and physics of ceramic materials, as well as their behavior and resulting properties, including bio-inspired approaches and microstructural aspects. As such, it presents production methods as well as the scientific background, teaching all important mathematical methods: classical, quantum-mechanical, phenomenological, and model-based approaches. Further emphasis is laid upon the current state of the art and possible developments and challenges within the near future.

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