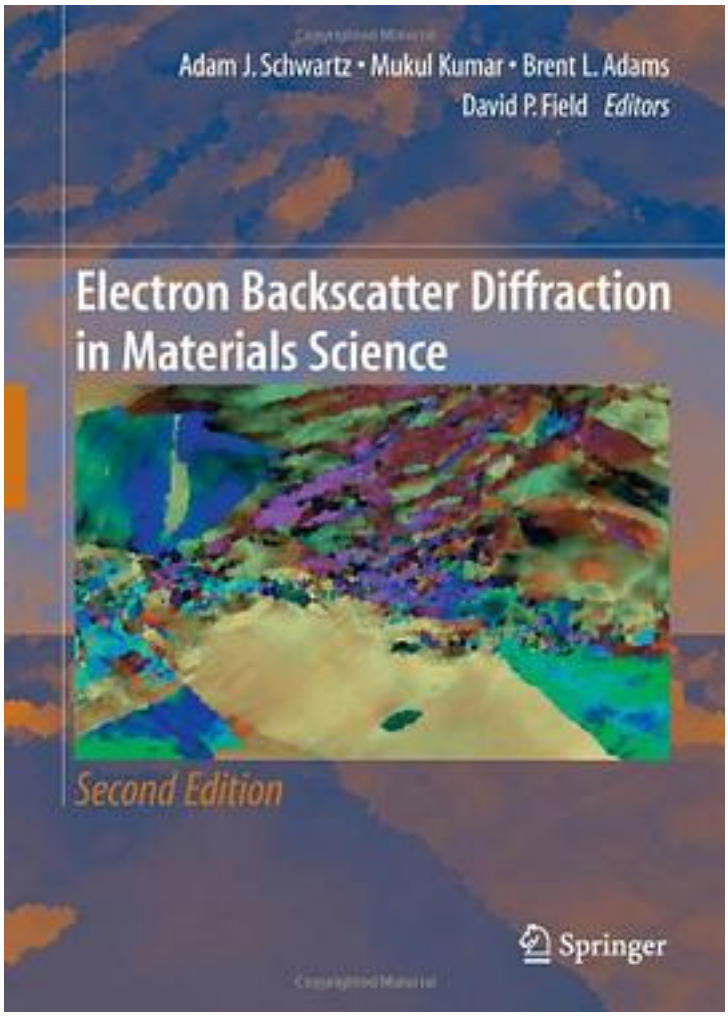
Electron Backscatter Diffraction in Materials Science



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著者:Schwartz, Adam J. (EDT)/ Kumar, Mukul (EDT)/ Field, David P. (EDT)

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Electron backscatter diffraction is a very powerful and relatively new materials characterization technique aimed at the determination of crystallographic texture, grain boundary character distributions, lattice strain, phase identification, and much more. The purpose of this book is to provide the fundamental basis for electron backscatter diffraction in materials science, the current state of both hardware and software, and illustrative examples of the applications of electron backscatter diffraction to a wide-range of materials including undeformed and deformed metals and alloys, ceramics, and superconductors. The text has been substantially revised from the first edition, and the authors have kept the format as close as possible to the first edition text. The new developments covered in this book include a more comprehensive coverage of the fundamentals not covered in the first edition or other books in the field, the advances in hardware and software since the first edition was published, and current examples of application of electron backscatter diffraction to solve challenging problems in materials science and condensed-matter physics.

作者介绍:

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标签

背散射电子衍射

材料学

评论

为数不多的一本系统介绍EBSD的书

The book is for an introduction of EBSD, but the content is not very academic. There are lots of real examples, but the fundamental things are not fully covered.

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书评

朴素的不能再朴素了， 可能工科的书，无法与文学哲学相比，
硬邦邦的，毫无语言的美感。 不过，其主旨EBSD的实验理念阐述清楚了，
可能也就达到本书的目的了。 也不能强求其他繁文缛节。 6.7.2012
此次专程从UTS（University of Technology, Sydney）将这本书真真的拿到桌面...

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