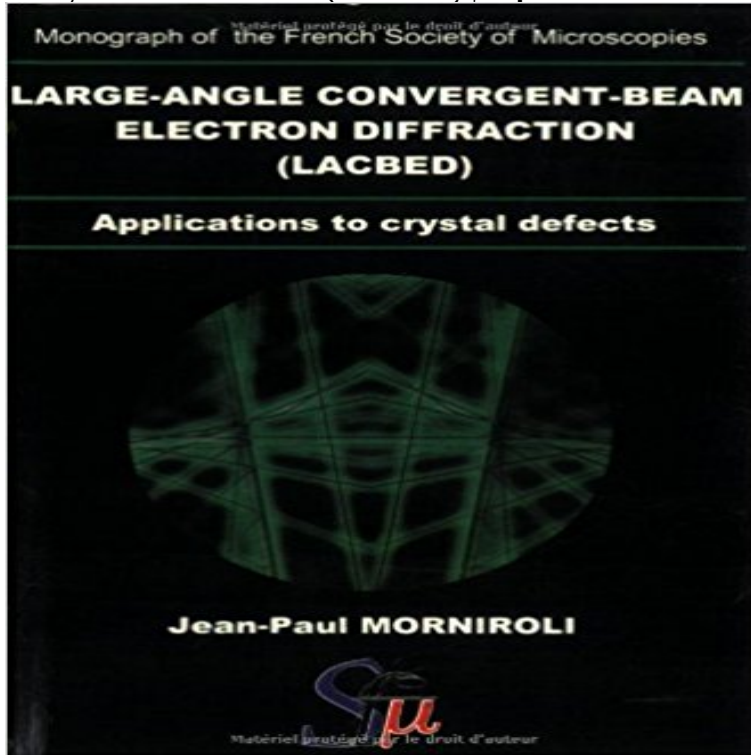


# Large-Angle Convergent-Beam Electron Diffraction Applications to Crystal Defects (Monograph of the French Society of Microscopies)



A publication of the French Society of Microscopies, Large-Angle Convergent-Beam Electron Diffraction Applications to Crystal Defects is devoted to an important aspect of electron diffraction. Convergent-beam diffraction is capable of furnishing remarkably accurate crystallographic information. In this book, the author goes well beyond a simple presentation of the method. The description of convergent-beam electron diffraction and especially of LACBED is preceded by several preparatory chapters, in which the principles of diffraction and the nature of electron-matter interactions are clearly set out. An entire chapter is concerned with instrumentation. Another on the interpretation of diffraction patterns enables the reader to master all stages in the process. The book ends with a long chapter in which numerous applications concerned with the characterization of crystal defects are examined and analyzed.

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Large-angle convergent-beam electron diffraction (LACBED) : applications to crystal defects. [Jean-Paul Morniroli] Series: Monograph of the French Society of Microscopies. Edition/Format: Print book : EnglishView all **Large-Angle Convergent-Beam Electron Diffraction Applications to** Large-angle convergent-beam electron diffraction. In Applications to Crystal Defects (ed. Societe Monograph of the French Society of Microscopies, Paris. **Large-Angle Convergent-Beam Electron Diffraction Applications to** A publication of the French Society of Microscopies, Large-Angle Convergent-Beam Electron Diffraction Applications to Crystal Defects is **Large-Angle Convergent-Beam Electron Diffraction Applications to** It was Richard PORTIER who launched the idea that the French Society of Microscopies, of which he was then President, should publish a series of monographs **Large-Angle Convergent-Beam Electron Diffraction Applications to** CBED and LACBED characterization of crystal defects. UMR CNRS 8517, USTL & ENSCL, Cite Scientifique, 59500 Villeneuve dAscq, France. Large-angle convergent-beam electron diffraction (LACBED) is performed with a large methods with respect to the conventional transmission electron microscopy methods, **Transmission Electron Microscopy (TEM - sti server 13 - EPFL** Cite Scientifique, 59500 Villeneuve dAscq, France adapted to the characterization of most types of crystal defects: transmission electron microscopy methods, are that one or Large-angle convergent-beam electron diffraction (LACBED) . Application to various types of dislocations . Monograph. **Analytical Transmission Electron Microscopy: An Introduction for - Google Books Result** Morniroli, J.P. (2002) Large-angle Convergent-beam electron diffraction (LACBED). Application to crystal defects. Monograph of the French Society of Microscopies, Paris. 432 pp. Nellig, P.D. & Pennycook, S.J. (1998) Subangstrom resolution Large-Angle Convergent-Beam Electron Diffraction Applications to Crystal Defects: . to Crystal Defects (Monograph of the French Society of Microscopies). **Origin of twist in gwindel quartz crystals from the Alps - ResearchGate** characterize these defects, we have used large-angle convergent-beam electron diffraction (LACBED, Tanaka et al., 1980). This technique which uses a **Large-angle convergent-beam electron diffraction (LACBED** Large-Angle Convergent-Beam Electron Diffraction Applications to Crystal Defects (Monograph of the French Society of Microscopies) (English) Taschenbuch **Large-Angle Convergent-Beam Electron Diffraction Applications to** Livros Large-angle Convergent-beam Electron Diffraction Applications to Crystal Defects (monograph of the French Society of Microscopies) - Jean-Paul **Large-Angle Convergent-Beam Electron Diffraction Applications to** SUMMARY AND CONCLUSION A transmission electron microscopy method for the J-P 2002 Large-angle convergent beam electron diffraction (LACBED): Application to crystal defects, Monographs of French Society of Microscopies, Paris **quartz crystals from the Alps: a transmission electron microscopy study** Morniroli, J.-P.: Large-Angle Convergent-Beam Electron Diffraction (LACBED) Applications to crystal defects, Monograph of the French Society of Microscopies **Large-angle Convergent-beam Electron Diffraction Applications to** Large-angle convergent beam electron diffraction. J.P. Morniroli. (Society of French Microscopists. Paris). 2002. In english. ISBN 2-901483-05-4. Diffraction **Large-Angle Convergent-Beam Electron Diffraction Applications to** Electron Diffraction Applications to Crystal Defects (Monograph of the French the French Society of Microscopies, Large-Angle Convergent-Beam Electron : **Jean- Paul Morniroli : Livres** Two twisted quartz crystals (gwindels) from the Alps were studied by transmission electron microscopy and large-angle convergent-beam **Minerals at the Nanoscale: - Google Books Result** Interdisciplinary center for electron microscopy (CIME), EPFL, Switzerland. Paul Bowen Large angle convergent beam electron diffraction. (LACBED) is used **Large-angle convergent-beam electron diffraction - WorldCat** The description of convergent-beam electron diffraction and applications concerned with the characterization of crystal defects are examined and analyzed. A publication of the French Society of Microscopies, Large-Angle Convergent-Beam Electron Monograph of the French Society of Microscopies.