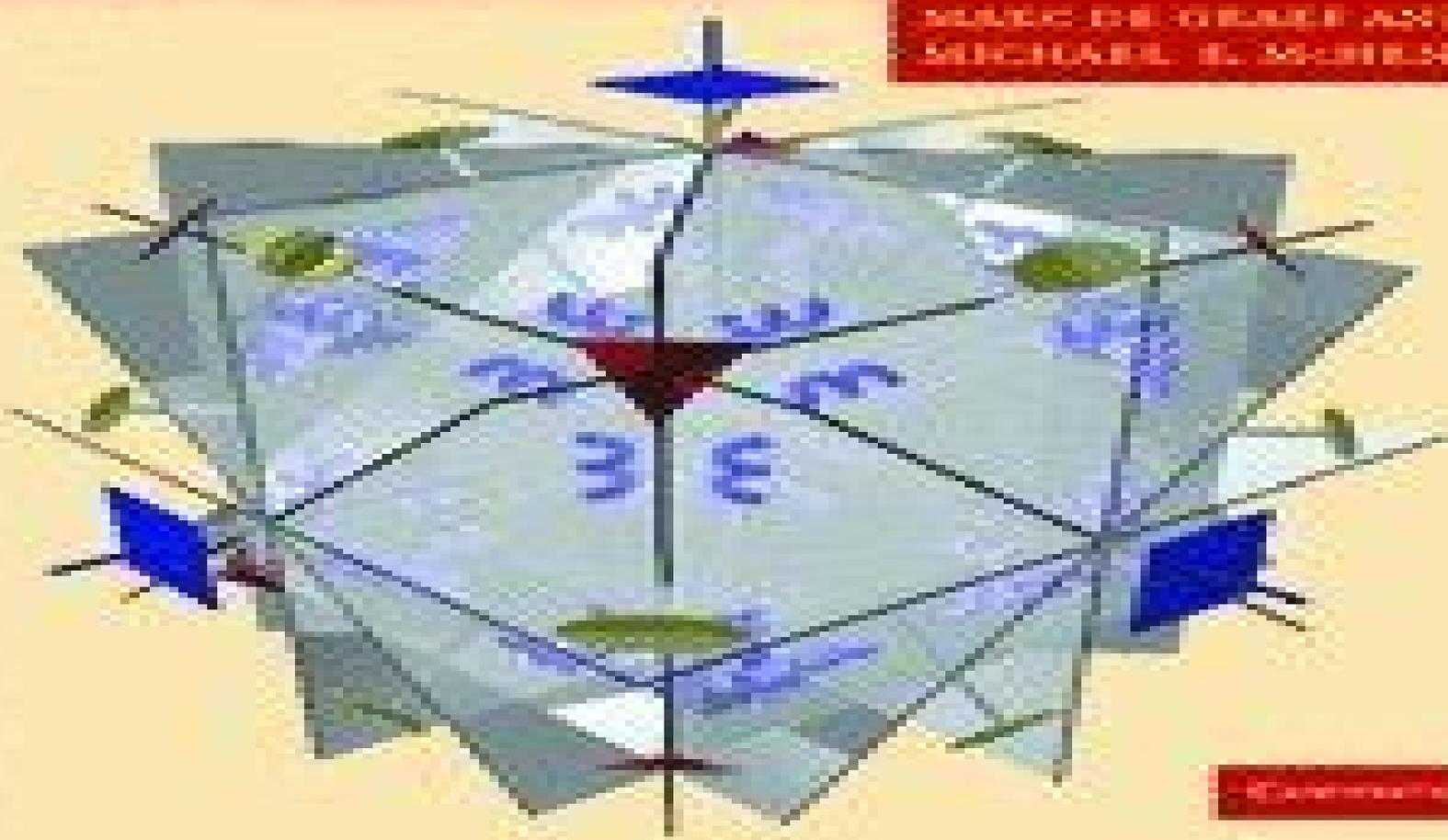


# STRUCTURE OF MATERIALS

An Introduction to Crystallography,  
Diffraction and Symmetry

SECOND EDITION, REVISED  
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# Structure Of Materials An Introduction To Crystallography Diffraction And Symmetry

**Tamás Mankovits, Mihály Csüllög**



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description of simple crystal structures with an explanation of how more complex structures can be considered in terms of these basic units Simple two dimensional patterns are used to introduce the concepts of the lattice and the motif as well as the ideas of symmetry Three dimensional patterns are covered with a discussion of the 14 Bravais lattices and the division of crystals into seven systems The description of crystal structures in terms of Miller indices and zone axis symbols is examined and the concept of the reciprocal lattice is explained Useful exercises are provided at the end of every chapter and useful geometric relationships are summarized in an appendix Many suggestions for further reading are included

**The Basics of Crystallography and Diffraction** Christopher Hammond, 2015 Crystallography and diffraction are widely used throughout science for studying structure The aim of this book is to show through relevant examples and without relying on complex mathematics that the basic ideas behind crystallography and diffraction are simple and easily comprehensible

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