

1. Record Nr.	UNINA9910814878303321
Autore	Lattman Eaton E (Eaton Edward), <1940->
Titolo	Protein crystallography : a concise guide // Eaton E. Lattman and Patrick J. Loll
Pubbl/distr/stampa	Baltimore, : Johns Hopkins University Press, 2008
ISBN	0-8018-9684-3 0-8018-8808-5
Edizione	[1st ed.]
Descrizione fisica	1 online resource (152 p.)
Altri autori (Persone)	LollPatrick J <1958-> (Patrick John)
Disciplina	612/.01575
Soggetti	Proteins - Structure X-ray crystallography
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Contents""; ""Preface""; ""Chapter 1. Introduction""; ""1.1 What Is X-ray Crystallography?""; ""1.2 A Quick Look at Protein Crystals""; ""1.3 Noncrystalline Specimens""; ""1.4 Summary""; ""Further Reading""; ""Chapter 2. A Physical Understanding of Diffraction""; ""2.1 What Is Diffraction?""; ""2.2 Diffraction from One-Dimensional Crystals""; ""2.3 Reconstructing Images from Diffraction Patterns""; ""2.4 Summary""; ""Further Reading""; ""Chapter 3. Diffraction from Three-Dimensional Crystals""; ""3.1 The Electron Density Function in Three Dimensions"" ""3.2 Calculating the Diffraction Pattern from a Known Structure"" ""3.3 Summary""; ""Further Reading""; ""Chapter 4. Phase Determination by Isomorphous Replacement""; ""4.1 Measuring the Phases""; ""4.2 MAD Phasing""; ""4.3 Fitting Models to Experimental Electron Density Maps""; ""4.4 Summary""; ""Further Reading""; ""Chapter 5. The Patterson Function""; ""5.1 Definition of the Patterson Function""; ""5.2 Using the Patterson Function to Locate Atoms""; ""5.3 Summary""; ""Further Reading""; ""Chapter 6. Phasing with Partially Known Structures""; ""6.1 Difference Fourier Maps"" ""6.2 Molecular Replacement"" ""6.3 Summary""; ""Further Reading""; ""Chapter 7. Crystallographic Refinement""; ""7.1 Refinement Improves the Model""; ""7.2 Least-Squares Refinement""; ""7.3 Summary""; ""Further Reading""; ""Glossary""; ""A""; ""B""; ""C""; ""D""; ""E""; ""F""; ""H""; ""I""; ""L""; ""M""; ""N""; ""O""; ""P""; ""R""; ""S""; ""T""; ""U""; ""V"";

"W"; "Index"; "A"; "B"; "C"; "D"; "E"; "F"; "G"; "H"; "I"; "K";
"L"; "M"; "N"; "O"; "P"; "Q"; "R"; "S"; "T"; "U"; "V"; "W";
"X"; "Z"

Sommario/riassunto

The crisp writing style and simple illustrations will provide beginner crystallographers with a guide to the process of unraveling protein structure.
