

1. Record Nr.	UNINA9910465181103321
Autore	Frank J (Joachim), <1940->
Titolo	Three-dimensional electron microscopy of macromolecular assemblies [[electronic resource]] : visualization of biological molecules in their native state // Joachim Frank
Pubbl/distr/stampa	Oxford ; ; New York, : Oxford University Press, 2006
ISBN	0-19-803438-5 1-4294-1521-5 0-19-515096-1 1-280-84551-1
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (427 p.)
Disciplina	570/.28/25
Soggetti	Three-dimensional imaging in biology Electron microscopy Electronic books.
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 (p. 345-398) and index.
Nota di contenuto	Contents; CHAPTER 1 Introduction; 1 The Electron Microscope and Biology; 1.1 General Remarks; 1.2 Three-Dimensional Electron Microscopy; 2 Single-Particle Versus Crystallographic Analysis; 3 Crystallography without Crystals; 4 Toward a Unified Approach to Structural Analysis of Macromolecules; 5 Single-Particle Reconstruction, Macromolecular Machines, and Structural Proteomics; 6 The Electron Microscope and the Computer; CHAPTER 2 Electron Microscopy of Macromolecular Assemblies; 1 Principle of the Transmission Electron Microscope; 2 Specimen Preparation Methods; 2.1 Introduction 2.2 Negative Staining2.3 Glucose Embedment; 2.4 Use of Tannic Acid; 2.5 Ice-Embedded Specimens; 2.6 Hybrid Techniques: Cryo-Negative Staining; 2.7 Labeling with Gold Clusters; 2.8 Support Grids; 3 Principle of Image Formation in the Transmission Electron Microscope; 3.1 Introduction; 3.2 The Weak-Phase Object Approximation; 3.3 The Contrast Transfer Theory; 3.4 Amplitude Contrast; 3.5 Formulation of Bright-Field Image Formation Using Complex Atomic Scattering Amplitudes; 3.6 Optical and Computational Diffraction Analysis-The

Power Spectrum; 3.7 Determination of the Contrast Transfer Function
3.8 Instrumental Correction of the Contrast Transfer Function
3.9 Computational Correction of the Contrast Transfer Function; 3.10
Locally Varying CTF and Image Quality; 4 Special Imaging Techniques
and Devices; 4.1 Low-Dose Electron Microscopy; 4.2 Spot Scanning; 4.3
Energy Filtration; 4.4 Direct Image Readout and Automated Data
Collection; CHAPTER 3 Two-Dimensional Averaging Techniques; 1
Introduction; 1.1 The Different Sources and Types of Noise; 1.2
Principle of Averaging: Historical Notes; 1.3 Equivalence between
Averaging and Quasi-Optical Fourier Filtration
1.4 A Discourse on Terminology: Views Versus Projections
1.5 The Role of Two-Dimensional Averaging in the Three-Dimensional Analysis of
Single Molecules; 1.6 Origins of Orientational Preferences; 2
Digitization and Selection of Particles; 2.1 Hardware for Digitization;
2.2 The Sampling Theorem; 2.3 Interactive Particle Selection; 2.4
Automated Particle Selection; 3 Alignment Methods; 3.1 Quantitative
Definitions of Alignment; 3.2 Homogeneous Versus Heterogeneous
Image Sets; 3.3 Translational and Rotational Cross-Correlation; 3.4
Reference-Based Alignment Techniques
3.5 Reference-Free Alignment Techniques
3.6 Alignment Using the Radon Transform; 4 Averaging and Global Variance Analysis; 4.1 The
Statistics of Averaging; 4.2 The Variance Map and the Analysis of
Statistical Significance; 4.3 Signal-to-Noise Ratio; 5 Resolution; 5.1 The
Concept of Resolution; 5.2 Resolution Criteria; 5.3 Resolution and
Cross-Resolution; 5.4 Resolution-Limiting Factors; 5.5 Statistical
Requirements following the Physics of Scattering; 5.6 Noise Filtering; 6
Validation of the Average Image; CHAPTER 4 Multivariate Data Analysis
and Classification of Images; 1 Introduction
1.1 Heterogeneity of Image Sets

Sommario/riassunto

1. Introduction
2. Electron Microscopy of Macromolecular Assemblies
3. Two-Dimensional Averaging Techniques
4. Multivariate Data Analysis and Classification of Images
5. Three-Dimensional Reconstruction
6. Interpretation of Three-Dimensional Images of
Macromolecules
Appendix 1: Some Important Definitions and
Theorems
Appendix 2: Profiles, Point-Spread Functions, and Effects of
Commonly Used Low-Pass Filters
Appendix 2: Bibliography of
Methods
Appendix 2: Bibliography of Structures
Appendix 2: Special
Journal Issues on Image Processing Techniques

2. Record Nr.	UNISA996395483003316
Autore	Erasmus Desiderius <d. 1536.>
Titolo	D. Erasmi Roterodami de duplici copia verborum ac rerum [[electronic resource]] : commentarii duo, multa accessione nouisque formulis locupletati. Vna cum commentarijs M. Veltkirchij oratoria professoris in schola Wittenbergensi, iam recens natis ac æditi
Pubbl/distr/stampa	Londini, : apud Henricum Middeltonum, anno Domini 1573
Descrizione fisica	[[+ leaves
Altri autori (Persone)	Velcurio Joannes <d. 1607, >
Soggetti	Rhetoric - 1500-1800 Study, Method of Title pages 16th century. England
Lingua di pubblicazione	Latino
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	M. Veltkirchius = Joannes Velcurio, sometimes known as Bernhardi. Cf. STC. Another edition of STC 10472, revised. Includes index. Fragment: t.p. only; print missing from title.. Reproduction of original in the British Library.
Sommario/riassunto	eebo-0018

3. Record Nr.	UNINA9910696865903321
Autore	Stevens Michael R
Titolo	Temporal and spatial variations in precipitation, streamflow, suspended-sediment loads and yields, and land-condition trend analysis at the U.S. Army Pinon Canyon Maneuver Site, Las Animas County, Colorado, 1983 through 2007 [[electronic resource] /] / by M. R. Stevens, J. Dupree, and J.M. Kuzmiak ; prepared in cooperation with the U.S. Department of the Army
Pubbl/distr/stampa	Reston, Va. : , : U.S. Dept. of the Interior, U.S. Geological Survey, , 2008
Edizione	[Version 1.0.]
Descrizione fisica	vii, 46 pages : digital, PDF file
Collana	Scientific investigations report ; ; 2008-5111
Altri autori (Persone)	DupreeJean A KuzmiakJohn M
Soggetti	Streamflow - Colorado - Pinon Canyon Maneuver Site Rain and rainfall - Colorado - Pinon Canyon Maneuver Site Suspended sediments - Colorado - Pinon Canyon Maneuver Site Pinon Canyon Maneuver Site (Colo.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from PDF title screen (viewed on July 22, 2008).
Nota di bibliografia	Includes bibliographical references (pages 41-42).