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Nota di contenuto	Three-phase partitioning -- Folding and degradation functions of molecular chaperones -- Membrane protein folding in detergents -- Glycoprotein folding quality control in the endoplasmic reticulum -- Protein import into the intermembrane space of mitochondria -- On-membrane identification of gel-resolved proteins by MALDI-MS -- Analysis of protein complexes using chemical cross-linking and mass spectrometry -- Single-crystal spectroscopy correlated with X-ray crystallography provides complementary perspectives on macromolecular function -- Wide-angle X-ray solution scattering (WAXS) -- Where purity matters : recombinant versus synthetic peptides in beta amyloid formation -- Chemical modification of proteins in living cells -- Proteomics of human bronchoalveolar lavage fluid : discovery of biomarkers of chronic obstructive pulmonary disease with difference gel electrophoresis (DIGE) and mass spectrometry -- Proteomic of Duchenne muscular dystrophy -- Target-oriented peptide arrays in a palliative approach to cystic fibrosis -- Probing protein dynamics in vivo using backbone cyclization : bacterial acyl carrier protein as a case study -- The protein epitope mimetic approach to protein-protein interaction inhibitors -- The structural biology of alpha-1 antitrypsin deficiency and the serpinopathies.

Sommario/riassunto

This book presents a survey of recent developments in protein biochemistry. Top researchers in the field of protein biochemistry describe modern methods to address the challenges of protein purification by three-phase partitioning, and their folding and degradation by the functions of chaperones. The significance of peptide purity for fibril formation is addressed as well as the use of target oriented peptide arrays in palliative approaches in mucoviszidose. The design and application of protein epitope mimetics just as the structural resolving of the misfolding of various mutant proteins in s