

SUBJECT INDEX TO VOLUME 10

Each page number refers to the first page of a given reference

- α -chymotrypsin, refolding transition in chemically modified, 105
Acetylcholinesterase, inhibition by detergent, 147
Alcohol dehydrogenase, self-association of, 217
Allosteric phenomena, applied to thermal transitions in proteins and nucleic acids, 363
Aspartate transcarbamylase, binding enthalpy of N-phosphoracetyl-L-aspartate to, 47
Association, of oxyhemoglobin, 17
Association, self-association of alcohol dehydrogenase, 217
Association, self-association of proteins, 129
Association theory for cross-linking involving macromolecular heterogeneous, 379
- Binding, large ligands to linear biopolymers cooperative, 173
Binding, of Ca^{2+} to negatively charged lipid membranes, 335
Binding, of detergent micelles to acetylcholinesterase, 147
Binding, of Mg^{2+} and Ca^{2+} to tetracyclines, 319
Binding, study by isoelectric focusing, 211
Brownian motion, of helical flagella, 81
- Chromatin, electric birefringence, 27
Conformational transition, in p-guanidinobenzoate trypsinogen induced by dipeptide, 253
Conformational transition, refolding of chemically modified α -chymotrypsin, 105
Conformation, effect of oligopeptides binding to polynucleotides, 1
Cooperative effects, in binding of large ligands to linear polymers, 173
- Decay, analysis of fluorescence anisotropy, 91
Denaturation, kinetics of alypsia myoglobin, 119
Denaturation, theoretical treatment of, 363
Detergent micelles, inhibition of acetylcholinesterase by, 147
- Dielectric dispersion, of low-molecular weight DNA, 67
Dielectric relaxation, of phosphatidyl choline analogues, 351
Diffusion constant, of proteins by fluorescence photobleaching recovery, 211
Diffusion controlled mean reaction time, systems with elliptical symmetry, 245
Diffusion controlled reaction rates, influence of dimensionality, 239
DNA, dielectric properties of, 67
DNA, electric birefringence of, 27
DNA, electro-optical effects for sonicated, 161
DNA, radial migration separation of very large, 327
Dynamics, of self-reproducing macromolecules, 153
- Electric birefringence, of DNA and chromatin, 27
Electric field, orientation function of rodlike particles in, 41
Electric permittivity, of low-molecular weight DNA, 67
Electro-optical effects, comparison for sonicated DNA, 161
Electrostatic interactions, in Ca^{2+} binding to negatively charged membranes, 335
- Flagella, Brownian motion of helical, 81
Fluorescence anisotropy, analysis of decay of, 91
Fluorescence photobleaching recovery, determination of diffusion constants of proteins by, 211
Fluorescence, polarization in an electric field, 161
- Gel matrices, comparison of different gels used in scanning gel chromatography, 55
- Hydrogen-bond interactions, in lipid membranes surfaces, 261
Hydrophobic interactions, in aqueous solutions of nucleic acid bases, 409, 415

- Infrared spectra, of poly(A, G)•poly U double helix, 231
- Interactions, in macromolecular systems studied by isoelectric focusing, 203
- Isoelectric focusing, determination of ligand binding constants by, 211
- Isoelectric focusing, for interacting systems, 203
- Kinetics, influence of dimensionality on diffusion controlled reaction rates, 239
- Kinetics, mean reaction time in diffusion controlled dynamics and with elliptical symmetry, 245
- Kinetics, of binding of N-phenyl naphthylamine to membranes, 305
- Kinetics, of Mg^{2+} and Ca^{2+} binding to tetracyclines, 319
- Lamm equation, approximate solution of, 187
- Lysozyme, complexes with ovalbumin, 379
- Magnetic susceptibility, of oxyhemoglobin, 113
- Mean reaction time, in diffusion controlled dynamics and systems with elliptical symmetry, 245
- Membranes, binding of Ca^{2+} to negatively charged lipid, 335
- Membranes, hydrogen-bonded structures in surface of lipid, 261
- Membranes, influence of dioxan on phase transition of phospholipids bilayer, 371
- Membranes, kinetics of binding of N-phenyl naphthylamine to negatively charged lipid, 305
- Membranes, kinetics of transport of hydrophobic ions through, 273
- Membranes, theory of passive transport through semipermeable, 191
- Membranes, thermodynamics of binding of N-phenyl naphthylamine to negatively charged lipid, 289
- Molecular weight determination, by approach-to-sedimentation equilibrium, 183
- Mössbauer quadrupole splitting, for oxyhemoglobin, 113
- Multiple binding, theory for equilibrium of, 397
- Myoglobin (aplysia), kinetics of reversible denaturation, 119
- NMR, of water in virus-infected cells, 143
- N-phenyl naphthylamine, thermodynamics of binding to negatively charged lipid membranes, 289
- N-phenyl naphthylamine, kinetics of binding to negatively charged membrane, 305
- N-phosphoracetyl-L-aspartate, binding enthalpy to aspartate transcarbamylase, 47
- Nucleic acid bases, apparent molar enthalpies of dilution of, 415
- Nucleic acid bases, apparent molar heat capacities of, 409
- Orientation function, of rodlike particles in an electric field, 41
- Osmotic flow, theory for semipermeable membranes, 191
- Ovalbumin, complexes with lysozyme, 379
- Oxyhemoglobin, electronic states of, 113
- Oxyhemoglobin, self-association, 17
- Peptides, binding to polynucleotides, 1
- p-Guanidinobenzoate trypsinogen, conformational transition induced by dipeptide, 253
- Phase transition, of phospholipid bilayer and monolayer, 371
- Phospholipids, influence of dioxan on phase transitions of, 371
- Phosphatidyl choline analogues, dielectric studies of, 351
- Poly (A,G)•poly U double helix, Raman and IR spectra, 231
- Polynucleotides, binding of oligopeptides to, 1
- Proteins, determination of diffusion constants by fluorescence photobleaching recovery, 211
- Proteins, thermodynamics of self-association, 129
- Quasi-elastic light scattering, self-association of alcohol dehydrogenase studied by, 217
- Radial migration, theory for separation of very large DNA by, 327
- Raman spectra, of poly (A,G)•poly U double helix, 231
- Reaction rates, influence of dimensionality on diffusion controlled, 239
- Scanning gel chromatography, comparison of gel matrices used in, 55
- Sedimentation, analysis of data during approach-to equilibrium, 183
- Sedimentation velocity, approximate solution of Lamm equation for, 187

- Self reproducing macromolecules, selection and self-organization of, 153
- Serum albumin, thermodynamic data for binding of fluorescein and phenylbutazone to, 397
- Serum albumin, thermodynamic data of binding of organic ligands to, 389
- Temperature jump relaxation, kinetics of aphysia myoglobin denaturation, 119
- Temperature jump relaxation, kinetics of binding of fluorescence indicator to membrane, 305
- Temperature jump relaxation, kinetics of Mg^{2+} and Ca^{2+} binding to tetracyclines, 319
- Temperature-jump relaxation, study of interaction between p-guanidinobenzoate trypsinogen and dipeptide, 253
- Tetracyclines, thermodynamics and kinetics of Mg^{2+} and Ca^{2+} binding to, 319
- Thermal transitions, in proteins and nucleic acids, 363
- Thermodynamics, binding enthalpy of N-phosphoracetyl-L-aspartate to aspartate transcarbamylase, 47
- Thermodynamics, enthalpies of dilution of nucleic acid bases, 415
- Thermodynamics, heat capacities of nucleic acid bases, 409
- Thermodynamics, ligand binding constants by isoelectric focusing, 211
- Thermodynamics, of binding of fluorescein and phenylbutazone to serum albumin, 397
- Thermodynamics, of binding of large ligands to linear biopolymers, 173
- Thermodynamics, of binding of N-phenyl naphthylamine to negatively charged lipid membranes, 289
- Thermodynamics, of binding of organic ligands to serum albumin, 389
- Thermodynamics, of Mg^{2+} and Ca^{2+} binding to tetracyclines, 319
- Thermodynamics, of multiple binding and cross-linking in ovalbumin-lysozyme system, 379
- Thermodynamics, of self-association of proteins, 129
- Transport equations, theory for passive transport through semipermeable membranes, 191
- Transport, of hydrophobic ions through lipid membranes, 273
- Virus infected cells, NMR studies of water in, 143
- Water, NMR studies in virus-infected cells, 143