

University of Leeds Classification of Books

Biophysics

Stack only; for main collection see General Biology

- A** **General**
[General Biology B]
- A-0.01 Periodicals [Stack only]
A-0.02 Series
A-0.03 Collections of essays, Festschriften etc.
A-0.04 Bibliography
A-0.06 Study & teaching
A-0.061 History [see History of Science]
A-0.09 Tables
A-1 General texts
- B-0** **Mathematical biophysics**
Biophysical calculations; Mathematical models
[General Biology A-1.5, B]
- C-0** **Biophysical crystallography; Liquid crystals**
[See also Physics D-1, Chemistry E-34.1]
- [D** **Practical biophysics: techniques & apparatus**
[General Biology D]
- D-0 General [Radiation protection at Physics E-2.5]
D-2 Techniques using light (visible, ultra-violet & infra-red)
[For microscopy see General Science A-4.2]
D-3 Techniques using X-rays
D-3.2 X-ray microscopy [For optics of microscopes see Physics H-4]
D-3.4 X-ray diffraction [see also Physics H-5, Physics D-1]
D-4 Techniques using electron beams
D-4.3 Electron microscopy [see General Science A-4.3]
D-5 Radioisotope techniques; autoradiography
[see also Chemistry K-2, Stack Agriculture C-39]
D-6 Detection of size and shape of macromolecules
D-6.3 The ultracentrifuge in biological research
D-6.5 Light scattering
D-6.7 Osmosis
D-7 Electron spin resonance & nuclear magnetic resonance
[see also Physics E-2.2]
D-8 Atomic absorption spectroscopy
D-9 Miscellaneous biophysics techniques & apparatus



- [F Biophysics of macromolecules; Biosynthesis]**
[General Biology S, U-3; Chemistry S-38]
- F-2 Carbohydrates excluding photosynthesis
 - F-3 Polysaccharides eg glucosamine - chitin
 - F-3.5 Mucopolysaccharides
 - F-4 Lipids. Fats. Oils. Fatty acids
 - F-5 Proteins and polypeptides. Flavin & flavoproteins
 - F-5.5 Porphyrins [see Chemistry S-38.21] & Amino Acids
 [For Enzymes see General Biology U-2]
 - F-6 Nucleic acids & nucleoproteins; nucleohistone
 [Chromosome structure see General Biology G-6]
 - F-7 Vitamins
 - F-8 Hormones
 - F-9 Other macromolecules of biological importance eg lignin
- [J Energetics of living matter]**
[General Biology U; cf. Chemistry L]
- J-0 General, oxidation-reduction potential
 - J-3 Energy transformations: high energy compounds
 - J-5 Irreversible thermodynamics & equilibrium states
 - J-7 Bond energies
- [K Micro-organisms]**
 (Structure on the molecular level only)
[General Biology F] [For biophysics of fungi see L-6]
- K-3 Bacteria
 - K-5 Viruses (including Bacteriophage)
- [L Ultrastructure of tissues & cells; Cytology]**
[General Biology L] [See also General Biology G-2; Zoology D; Botany D]
- L-2 Animal and plant coverings (eg skin, epidermis, cuticle, external skeleton)
 - L-3 Animal tissues
 - L-3.1 Feathers & mammalian hair [For non-mammalian "hairs" see L-2]
 - L-3.3 Muscle *see also* Zoology E-2
 - L-3.4 Nerve & sensory cells *see also* Zoology E-2
 - L-2.5 Bone & teeth of vertebrates *see also* Zoology E-2
 - L-3.7 Connective tissue *see also* Zoology E-2
 - L-3.8 Blood *see also* Zoology E-2
 - L-4 Plant ultrastructure
 - L-5 Walls of plant cells including plant fibres, & fungal cell walls [see also Botany]
 - L-6 Ultrastructure of lower plants - Algae, Bryophytes & Fungi
 - L-7 Ultrastructure of higher plants [For epidermis & cuticle see L-2]
 - L-7.4 Vascular tissues [see also Botany C-5]
 - L-7.6 Non-vascular tissues
 - L-8 Protoplasm, plant & animal
 - L-8.5 Protoplasmic organelles, plant & animal [For chromosome structure see F-6 & General Biology G]
- M-0 Membranes: structure & function**
[General Biology M]
- R-0 Rheology in organisms**
[General Biology R]