

ECE INFORMATION

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Education:

- Ph. D. : Harvard University, 1976.
- M.S. : Physics, Harvard University, 1972.
- B. S. : Physics, Chemistry, Virginia Polytechnic Institute and State University, 1970.

Research Interests:

High-Speed Data Acquisition Systems, Spectroscopy Instrumentation, Medical Diagnostics, and Environment Monitoring.

Textbooks Published:

The Challenge of Biological Membranes: The Ultimate in Microelectronics, Physics Today, Issue #32, by B. Chance, P. Mueller, D. DeVault, L. Powers, (American Institute of Physics, 1980).

X-ray Absorption Spectroscopy: Application to Biological Molecules, Biochim. Biophys. Acta 683, 1, by L.S. Powers, (Elsevier, 1982).

X-Ray Absorption Spectroscopy: An Overview, Proceedings of the Satellite Meeting on New Methods in X-Ray Absorption, Scattering, Diffraction, 3, by L.S.Powers, (Academic Press, 1986).

Noise Characteristics of U. S. Synchrotron Sources, Rev. Sci. Instrum. 257, 3024, by L.S.Powers, (American Institute of Physics, 1986).

L. Powers: *Biomolecular Materials and Design*, in Molecular Electronics and Molecular Electronic Devices, 3, 211, by L.S. Powers, (CRC Press, 1994).

Extended X-ray Absorption Fluorescence Spectroscopy (EXAFS), 866; *Ferritins, Iron-Binding Proteins*, 905; *Iron Response Elements: Metalloproteins*, 1315; *Metallothionein*, 1476; *Zinc-Binding Proteins*, 1478, in Encyclopedia of Molecular Biology, by L. S. Powers. T. E. Creighton, Editor, (John Wiley & Sons, 1999).

A Beacon for Creativity and Innovation – Britton Chance, Life and Works of Britton Chance, by L.S. Powers, (<http://www.med.upenn.edu/biocbiop/chance/>, 2011).

