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Faculty & Staff

Yitzhak Mendelson

Associate Professor

[Faculty Listing](#)

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Related Information

- [Bioengineering Institute](#)
- [Research Areas](#)

Educational Background

- B.S., State University of NY at Buffalo, 1975
- M.S., State University of NY at Buffalo, 1976
- Ph.D., Case Western Reserve University, Cleveland, OH, 1983

Research & Teaching Interests

Biosensors; microcomputer-based biomedical instrumentation; invasive and noninvasive blood gas monitoring; applications of optics to biomedicine

IQP Advising Interests

Impact of new technologies in health care; education of health care professionals; care of elderly; hospital based projects; computers & education; introducing new teaching materials

Recent Publications

- "Optical Sensors", In: Clinical Engineering, Eds. David, von Maltzahn, Neuman and Bronzino, CRC Press, 2003.
- "Optical Sensors", In: Encyclopedia of Medical Devices and Instrumentation, 2nd edition, J.

Webster, Ed. John Wiley and Sons, 2003.

- Mendelson, Y., Lewinsky, RM and Wasserman, Y., "Multi-Wavelength Reflectance Pulse Oximetry", Anesth. Analg., 94, pp. S26-S30, 2002.

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Professional Experience & Activities

- Consultant to major medical instrumentation companies in the field of optical applications to medical diagnostics. Specific expertise include the development of invasive and non-invasive blood gases and biochemical analyte monitoring.

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