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TERM OF APPOINTMENT is one year, beginning in September of 2005 with participation in a two-week orientation sponsored by AAAS. Fellows have considerable choice in congressional assignments.

A STIPEND of \$50,000 is offered in addition to allowances for relocation, in-service travel, and health insurance premiums.

APPLICATION should consist of a letter of intent of approximately 2-pages, a list of key publications, a 2-page resume and three letters of reference. Please see the APS website (http://www.aps.org/public_affairs/fellows.html) for detailed information on materials required for applying and other information on the program.

ALL APPLICATION MATERIALS
MUST BE POSTMARKED BY
JANUARY 17, 2005 AND
SHOULD BE SENT TO THE
FOLLOWING ADDRESS:

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c/o Jackie Beamon-Kiene
APS Executive Office
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as indicated by its subtitle, a *history* of the subject. *The Cold Wars* is not designed to anticipate a glorious future; on the contrary, it projects a skeptical view of future prospects and a rather ambivalent view of recent developments that are based on the detailed chemistry of specific new materials.

Michael Tinkham
*Harvard University
Cambridge*

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Noise Theory and Application to Physics: From Fluctuations to Information. P. Réfrégier. *Advanced Texts in Physics*. Springer-Verlag, New York, 2004. \$69.95 (288 pp.). ISBN 0-387-20154-8

Radiation Acoustics. L. M. Lyamshev. CRC Press, Boca Raton, FL, 2004. \$129.95 (369 pp.). ISBN 0-415-30999-9

Astronomy and Astrophysics

AGN Physics With the Digital Sky Survey. G. T. Richards, P. B. Hall, eds. *Astronomical Society of the Pacific Conference Series 311*. Proc. conf., Princeton, NJ, July 2003. Astronomical Society of the Pacific, San Francisco, 2004. \$77.00 (479 pp.). ISBN 1-58381-164-8

Cognitive Information Processing in Space Physics and Astrophysics. L. Liszka. Pachart, Tucson, AZ, 2003. \$58.00 *paper* (275 pp.). ISBN 0-88126-090-8

A Concise History of Solar and Stellar Physics. J.-L. Tassoul, M. Tassoul. Princeton U. Press, Princeton, NJ, 2004. \$39.95 (282 pp.). ISBN 0-691-11711-X

The Dense Interstellar Medium in Galaxies. S. Pfalzner, C. Kramer, C. Staubmeier, A. Heithausen, eds. *Springer Proceedings in Physics 91*. Proc. symp., Zermatt, Switzerland, Sept. 2003. Springer-Verlag, New York, 2004. \$239.00 (666 pp.). ISBN 3-540-21254-X, CD-ROM

Observing and Measuring Visual Double Stars. B. Argyle, ed. *Patrick Moore's Practical Astronomy Series*. Springer-Verlag, New York, 2004. \$39.95 *paper* (326 pp.). ISBN 1-85233-558-0, CD-ROM

Solar Astrophysics. 2nd Rev. ed. P. V. Foukal. Wiley-VCH, Weinheim, Germany, 2004 [1990]. \$115.00 (466 pp.). ISBN 3-527-40374-4

Telescopes and Techniques: An Introduction to Practical Astronomy. 2nd ed. C. Kitchin. *Patrick Moore's Practical Astronomy Series*. Springer-Verlag, New York, 2003 [1995]. \$34.95 *paper* (258 pp.). ISBN 1-85233-725-7

Variable Stars in the Local Group: IAU Colloquium 193. D. W. Kurtz, K. R. Pollard, eds. *Astronomical Society of the Pacific Conference Series 310*. Proc. colloq., Christchurch, New Zealand, July 2003. Astronomical Society of the Pacific, San Francisco, 2004. \$77.00 (597 pp.). ISBN 1-58381-162-1

Atomic and Molecular Physics

Molecular Physics and Elements of Quantum Chemistry: Introduction to Experiments and Theory. 2nd ed. H. Haken, H. C. Wolf (translated from German by W. D. Brewer). *Advanced Texts in Physics*. Springer-Verlag, New York, 2004 [1995]. \$69.95 (592 pp.). ISBN 3-540-40792-8

The Spectra and Dynamics of Diatomic Molecules. 2nd Rev. ed. H. Lefebvre-Brion, R. W. Field. Elsevier, San Diego, 2004 [1986]. \$135.00, \$85.00 *paper* (766 pp.). ISBN 0-12-441455-9, ISBN 0-12-441456-7 *paper*

Biological and Medical Physics

Bioelectrochemistry of Membranes. Vol. 6. D. Walz, J. Teissié, G. Milazzo, eds. *Biochemistry: Principles and Practice*. Birkhäuser, Boston, 2004. \$159.00 (240 pp.). ISBN 3-7643-2166-0

Biological Imaging and Sensing. T. Furukawa, ed. *Biological and Medical Physics, Biomedical Engineering*. Springer-Verlag, New York, 2004. \$79.95 (298 pp.). ISBN 3-540-43898-X

Introduction to Molecular Biophysics. J. A. Tuszynski, M. Kurzynski. *CRC Series in Pure and Applied Physics*. CRC Press, Boca Raton, FL, 2003. \$139.95 (550 pp.). ISBN 0-8493-0039-8

Long-Range Charge Transfer in DNA 1. G. B. Schuster, ed. *Topics in Current Chemistry* 236. Springer-Verlag, New York, 2004. \$189.00 (219 pp.). ISBN 3-540-20127-0

Long-Range Charge Transfer in DNA 2. G. B. Schuster, ed. *Topics in Current Chemistry* 237. Springer-Verlag, New York, 2004. \$199.00 (244 pp.). ISBN 3-540-20131-9

Medical Applications of Nuclear Physics. K. Bethge, G. Kraft, P. Kreisler, G. Walter. *Biological and Medical Physics, Biomedical Engineering*. Springer-Verlag, New York, 2004. \$99.00 (208 pp.). ISBN 3-540-20805-4

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100 Years of Physical Chemistry: A Collection of Landmark Papers. Royal Society of Chemistry. Royal Society of Chemistry, Cambridge, UK, 2003. \$159.00 (376 pp.). ISBN 0-85404-987-8

The Chemical Bond: A Fundamental Quantum-Mechanical Picture. T. Shida. *Springer Series in Chemical Physics* 76. Springer-Verlag, New York, 2004. \$119.00 (206 pp.). ISBN 3-540-20638-8

Modern Trends in Chemical Reaction Dynamics: Experiment and Theory (Part 1). X. Yang, K. Liu, eds. *Advanced Series in Physical Chemistry* 14. World Scientific, River Edge, NJ, 2004. \$106.00 (638 pp.). ISBN 981-238-568-1

Computers and Computational Physics

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Numerical Computing with MATLAB. C. B. Moler. SIAM, Philadelphia, 2004. \$42.50 *paper* (336 pp.). ISBN 0-89871-560-1

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Advances in Condensed Matter and Statistical Physics. E. Korutcheva, R. Cuerno, eds. Nova Science, Hauppauge, NY, 2004. \$98.00 (382 pp.). ISBN 1-59033-899-5

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Predictive Simulation of Semiconductor Processing: Status and Challenges. J. Dabrowski, E. R. Weber, eds. *Springer Series in Materials Science* 72. Springer-Verlag, New York, 2004. \$179.00 (490 pp.). ISBN 3-540-20481-4

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Quantum Gravity. C. Kiefer. *International Series of Monographs on Physics* 124. Oxford U. Press, New York, 2004. \$114.50 (308 pp.). ISBN 0-19-850687-2

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Knox, T. R. Miller. Knolls Atomic Power Laboratory, Schenectady, NY, 2002. \$25.00 *paper* (88 pp.). Order copy online at <http://www.ChartOfTheNuclides.com>

The Physics of Skiing: Skiing at the Triple Point. 2nd ed. D. Lind, S. P. Sanders. Springer-Verlag, New York, 2004 [1997]. \$69.95 (266 pp.). ISBN 0-387-00722-9

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The Atomic Nucleus as a Relativistic System. L. N. Savushkin, H. Toki. *Texts and Monographs in Physics.* Springer-Verlag, New York, 2004. \$139.00 (349 pp.). ISBN 3-540-40492-9

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Optical Engineer's Desk Reference. W. L. Wolfe, ed. Optical Society of America, Washington, DC, and SPIE Press, Bellingham, WA, 2003. \$125.00 (738 pp.). ISBN 1-55752-757-1

The Optics Encyclopedia: Basic Foundations and Practical Applications. Vols. 1–5. T. G. Brown, K. Creath, H. Kogelnik, et al., eds. Wiley-VCH, Weinheim, Germany, 2004. \$985.00 set (3472 pp. set). ISBN 3-527-40320-5

Optics, Light and Lasers: The Practical Approach to Modern Aspects of Photonics and Laser Physics. D. Meschede. Wiley-VCH, Weinheim, Germany, 2004. \$75.00 paper (410 pp.). ISBN 3-527-40364-7

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Silicon Photonics. L. Pavesi, D. J. Lockwood, eds. *Topics in Applied Physics*.

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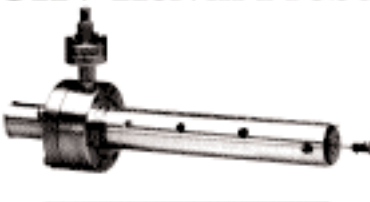
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Quantum Mechanics: A Conceptual Approach. H. F. Hamerka. Wiley, Hoboken, NJ, 2004. \$49.95 *paper* (194 pp.). ISBN 0-471-64965-1

Quantum Physics in One Dimension. T. Giamarchi. *International Series of Monographs on Physics 121*. Oxford U. Press, New York, 2004. \$114.50 (424 pp.). ISBN 0-19-852500-1

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