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EDUCATION

Ph.D., University of Virginia, 1969, Physics
B. S., University of Richmond, 1965, Physics and Mathematics

PROFESSIONAL EXPERIENCE

Clemson University, 1979-present, Professor of Physics
1973-1979, Associate Professor of Physics
1969-1973, Assistant Professor of Physics
University of Virginia, 1969, Postdoctoral Research Associate

Other Professional Experience

Donostia International Physics Center, San Sebastian, Spain, May-August 2008,
Visiting Research Professor.
Université de Paris XI, Orsay, France, Laboratoire des Collisions Atomiques et
Moléculaires, CNRS, May-August 2007, Visiting Research Professor
Freie Universität Berlin, Physics Department, Berlin, Germany, May-August 1998-
2006, Visiting Research Professor.
Max Planck Institut für Strömungsforschung, Göttingen, Germany, May-August
1990-1997, Visiting Research Professor; prior to 1990, two summers as Visiting
Research Professor.
Centre d' Etudes Nucléaires de Saclay, 1992-1993, Sabbatical Leave; prior to 1990,
nine summers and two sabbaticals as Visiting Research Professor.
Forschungszentrum Jülich, Jülich, Germany, May-August 1988, 1990, 1991,
1992, Visiting Research Professor.
Oak Ridge National Laboratory, Visiting Research Professor, summer 1979.

Foreign Languages

Proficient in French and German

MEMBERSHIPS

American Physical Society
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PUBLICATIONS

1. N. Cabrera, V. Celli, and J. R. Manson, "Theory of Surface Scattering and Detection of Surface Phonons", *Physical Review Letters* **22**, 346 (1969).
2. J. R. Manson, V. Celli, and B. DuVall, "Induction of Circuits Containing a Superconducting Plate", *Journal of Applied Physics* **40**, 3075 (1969).
3. N. Cabrera, V. Celli, F. O. Goodman, and J. R. Manson, "Scattering of Atoms From Solid Surfaces I", *Surface Science* **19**, 67 (1970).
4. J. R. Manson and V. Celli, "Inelastic Surface Scattering of Non-Penetrating Particles", *Surface Science* **24**, 495 (1971).
5. J. R. Manson, "Simple Model for the Energy Accommodation Coefficient", *Journal of Chemical Physics* **56**, 3451 (1972).
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7. J. R. Manson, "Energy Accommodation Coefficient for Simple Models of the Surface", *Eighth International Symposium on Rarefied Gas Dynamics*, AFOSR-TR-71-1276 (1972).
8. J. R. Manson, and M. Sherrill, "Fluxons in Dual Thin Films", *Physical Review B* **11**, 1066 (1975).
9. B. Gaffney and J. R. Manson, "Energy Accommodation Coefficient for Square Well and Morse Potentials", *Journal of Chemical Physics* **62**, 2508 (1975).
10. J. R. Manson and John Tompkins, "Two-Phonons Contributions to the Energy Accommodation Coefficient", *Proceedings of the 10th International Symposium on Rarefied Gas Dynamics*, *Progress in Astronautics and Aeronautics* **51**, 603 (1977)
11. G. Armand and J. R. Manson, "Inelastic Scattering of Neutral Atoms by a Corrugated Hard Wall", *Nederlands Tijdschrift voor Vacuumtechniek* **16c 2/3/4**, 342 (1978).
12. G. Armand and J. R. Manson, "Scattering by a Hard Corrugated Wall: An Exact Solution", *Physical Review B* **18**, 6510 (1978).
13. J. R. Manson and G. Armand, "Scattering of Atoms by a Corrugated Potential Wall of Finite Height", *Proceedings of the 11th International Symposium on Rarefied Gas Dynamics in Rarefied Dynamics*, R. Compangue, editor CCEA, Paris, 1373 (1979).
14. G. Armand and J. R. Manson, "Elastic and Inelastic Scattering of Neutral Atoms by a Corrugated Hard Wall", *Surface Science* **80**, 532 (1979).
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16. G. Armand, J. Lapujoulade, and J. R. Manson, "Hard Corrugated Wall Potential: Numerical Calculation of Diffracted Peak Intensities for Any Type of Corrugation", *Surface Science* **82**, L625 (1979).
17. J. R. Manson, G. Armand and J. Lapujoulade, "On the Fourier Components of the Atom-Surface Scattering Potential", *Surface Science* **82**, L593 (1979).
18. J. R. Manson and G. Armand, "Scattering of Atoms by a Corrugated Potential Wall of Finite Height", *Physical Review B* **20**, 5020 (1979).
19. G. Armand and J. R. Manson, "Scattering of Neutral Atoms by an Exponential Corrugated Potential", *Physical Review Letters* **43**, 1839 (1979).
20. N. Garcia, V. Celli, and J. R. Manson, "Recent Analysis of Accommodation Coefficients of Light Atoms", *Journal of Chemical Physics* **22**, 3436 (1980).

21. J. R. Manson and R. H. Ritchie, "Self-Energy of a Charge Near a Surface", *Physical Review B* **24**, 4867 (1981).
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78. Srilal M. Weera and J. R. Manson, "Multiphonon Scattering from Surfaces: Comparison of Approximations", *Journal of Electron Spectroscopy and Related Phenomena* **64/65**, 707 (1993).
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82. J. R. Manson and R. H. Ritchie, "Energy Loss In Fast Particle Surface Scattering at Grazing Incidence", *Physical Review B* **49**, 4881 (1994).
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85. J. R. Manson, "The Transition from Quantum to Classical Atom-Surface Scattering", *Nuclear Instruments and Methods in Physics Research B* **96**, 497 (1995).
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95. F. Hofmann, J. P. Toennies and J. R. Manson, "The Transition from Single Phonon to Multiphonon Energy Transfer in Atom-Surface Collisions", *Journal of Chemical Physics* **106**, 1234 (1997).
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101. A. Glebov, J. R. Manson, S. Miret-Artés, J. G. Skofronick and J. P. Toennies, "Inelastic Focusing Effects in Atom-Surface Scattering", *Physical Review B*. **57**, R9455 (1998).
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HONORS AND AWARDS

South Carolina Governor's Award for Science Discovery (1998)

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Clemson University Board of Trustees 1998 Award for Faculty Excellence
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