

Richard E. Denton

Richard E. Denton
Research Professor
Dartmouth College
Hanover, New Hampshire, 03755-3528

Birth: July 19, 1955, Arlington, VA.

Education:

Post-graduate study (8 courses) in Linguistics at Dartmouth College
Ph.D. Department of Physics, University of Maryland, 1986
M.A. Department of Physics, SUNY at Stony Brook, 1979
B.S. Department of Physics, College of William and Mary, 1977

Positions:

2004-Present, Research Professor, Dartmouth College
1995-2004, Research Associate Professor, Dartmouth College
1990-1995, Research Assistant Professor, Dartmouth College
1990, Research Associate, Center for Atomic Energy Research, France
1988-1990, Research Associate, Institute for Fusion Studies, University of Texas, Austin
1987-1988, Research Associate, University of Maryland
1982-1984, Research Associate, Naval Research Laboratory
1979-1982, Teacher (Physics), Lake Braddock High School, Virginia
1979-1980, Instructor (Physics), Northern Virginia Community College (NVCC), VA

Courses Taught:

Engineering Electrodynamics (Dartmouth EngSci 120, 2008)
Computational Plasma Physics (Dartmouth Phys118, 2007)
Plasma Kinetic Theory (Dartmouth Phys111, 1999)
Graduate Level Electrodynamics (Dartmouth Phys106, 1996, 1997)
Undergraduate Level Electrodynamics (Dartmouth Phys66, 1991)
University Physics (NVCC Phy241, Phy242, Phy243, 1979-1980)

Professional Service:

Have participated on several Dartmouth panels discussing science and religion
Regularly teach aerospace education at the Lebanon Squadron of the Civil Air Patrol (monthly since 2000). Spoke about Newton's Laws at the Richmond Middle School (2006)
Co-editor of AGU monograph Ultra-low Frequency Waves in the Magnetosphere and special issue of Planetary and Space Science by the same title (2006)
Co-convener of AGU Chapman Conference on ULF Waves (2005)
Co-convener of special sessions at American Geophysical Union (AGU) meetings (2002, 2004)

Member:

American Geophysical Union

Publications:

"A new approach for translation of the New Testament into unknown languages", submitted to course on Computational Linguistics at Dartmouth College (this paper outlined an approach to Bible translation similar to that of TBTA, and led to contact with Tod Allman), 2005.

Some Recent Publications:

Denton, R.E., B. Rogers, W. Lotko, and Anatoly Streltsov (2008), Alfvén wave dynamics in reduced magnetohydrodynamics and symmetry boundary conditions, *Phys. Plasmas*, 15, 032106, DOI: 10.1063/1.2898409.

Denton, R.E., B. Rogers, and W. Lotko (2007b), Reduced MHD Equations with Coupled Alfvén and Sound Wave Dynamics, *Phys. Plasmas*, 14, 102906, DOI: 10.1063/1.2786060.

Denton, R.E., B. Rogers, and W. Lotko (2007a), Reduced MHD Equations with Coupled Alfvén and Sound Wave Dynamics, *Phys. Plasmas*, 14, 102906, DOI: 10.1063/1.2786060.

Denton, R.E. (2006), Magneto-seismology using spacecraft observations, in AGU monograph *Magnetospheric ULF Waves: Synthesis and New Directions*, Geophysical Monograph Series 169, American Geophysical Union, Washington, D.C.

Denton, R. E., K. Takahashi, I. A. Galkin, P. A. Nsumei, X. Huang, B. W. Reinisch, R. R. Anderson, M. K. Sleeper, and W. J. Hughes (2006b), Distribution of density along magnetospheric field lines, *J. Geophys. Res.*, 111, A04213, doi:10.1029/2005JA011414.

Denton, R.E., J. Goldstein, D.-H. Lee, R.A. King, Z.C. Dent, D.L. Gallagher, D. Berube, K. Takahashi, M. Nose, D. Milling, and F. Honary (2006a), Realistic Magnetospheric Mass Density Model For 29 August 2000, *J. Atmos. Solar Terr. Phys.*, 68 (6), 615-628.

Denton, R.E., J. Goldstein, J.D. Menietti, and S.L. Young (2004b), Electron density in the magnetosphere, *J. Geophys. Res.*, 109, A09215, doi:10.1029/2003JA010245.

Denton, R.E., K. Takahashi, R.R. Anderson, and M.P. Wuest (2004a), Magnetospheric toroidal Alfvén wave harmonics and the field line distribution of mass density, *J. Geophys. Res.*, 109, No. A6, A06202, 10.1029/2003JA010201, 2004a.

Denton, R.E., M.R. Lessard, and L.M. Kistler (2003), Radial localization of magnetospheric guided poloidal Pc 4-5 waves, *J. Geophys. Res.*, 108 (A3), art. no.-1105.

Denton, R.E., J. Goldstein, and J.D. Menietti (2002b), Field line dependence of magnetospheric electron density, *Geophys. Res. Lett.*, 29, NO. 24, 2205, doi:10.1029/2002GL015963.

More than 80 papers on space physics published in scientific journals.