

# Resume of Dr. Theodore (Ted) R. Anderson

Security Clearance (possibly not current) DOD and DOE

Citizenship United States

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Highest degree **PhD in physics** from New York University in 1986.

To verify and/or buy my PhD thesis go to: <http://disexpress.umi.com/dxweb> and type in: **TURBULENT WALL PRESSURE FLUCTUATIONS IN TERMS OF SPECTRAL DENSITIES CALCULATED FROM DISCRETE AND CONTINUOUS ORR-SOMMERFELD EIGENFUNCTIONS (ECKHAUS, TOLLMIE-SCHLICHTING)**

by *Anderson, Theodore Robert*, New York University, 1986, 173 pages; You can also type in: UMI Publication Number 8706713

## CURRENT STATUS.

I am founder, Chief Executive Officer, principal investigator, and Chief Technology Officer of *Haleakala Research and Development Inc.* ([www.haleakala-research.com](http://www.haleakala-research.com)) 2002-present. I have won 9 phase 1 SBIR (Small Business Innovative Research) contracts and 2 phase 2 SBIR contracts with the US Air Force, US Army, US Navy, and US Marine Corp. This amounted to over 2 million dollars in R&D funds. *Scientific American* published an article on my technology and company in the February 2008 issue on page 22. The Air Force wrote a success story on my company and technology which appeared on the Air Force website. See my website for all the details: [www.haleakala-research.com](http://www.haleakala-research.com)

**I AM CURRENTLY WORKING ON RAIN ACTIVATION AND ENHANCEMENT USING MY ATMOSPHERIC PLASMA ANTENNAS TO SOLVE THE WORLDWIDE DROUGHT PROBLEM. I HAVE WRITTEN A REPORT ON THIS TOPIC WHICH HAS BEEN PEER REVIEWED. I CAN PROVIDE THOSE. OUR FILED PATENT NUMBER ON THIS TECHNOLOGY IS:**

Application Number	63436842
Confirmation Number	1806
Title	ATMOSPHERIC ION BEAMS FROM ND:GLASS LASERS AND MARX GENERATORS TO ACTIVATE AND/OR ENHANCE RAIN
Inventor	Theodore Robert Anderson

**I AM CURRENTLY WORKING ON A FAR-UVC TECHNOLOGY TO KILL COVID-19 AND OTHER VIRUSES WITHOUT HARMING HUMANS. I TREAT THE FAR-UVC DEVICE AS A PLASMA ANTENNA IN THE FAR-UVC SPECTRUM.**

## RECENT PATENTS:

### **Magnetic Resonance Imaging and Positron Emission Tomography Work.**

#### **Theodore Anderson, *MRI Device with Plasma Conductor***

:       Appl. No.:   **15/531645**  
      Filed:       **June 15, 2016**  
      PCT Filed:   **June 15, 2016**  
      PCT NO:     **PCT/US2016/037568**

**Allowed in US June 2019; filed internationally.**

#### **Theodore Anderson, *International Patent: Plasma elements for MRI/PET***

International Application Number PCT/US2016/037568, filed June 15, 2016;  
<<https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016205326>>.

16 out of 21 claims allowed at international patent office in Geneva, Switzerland.

#### **Theodore Anderson, *US Patent: Plasma elements for MRI/PET***

US Application Number 15/183,323, filed, June 15, 2016,

To see published application on the Internet, go to the PTO web site at  
<<http://appft1.uspto.gov/netahtml/PTO/srchnum.html>> and enter the Publication Number  
2016/0370442 without the slash.

## RECENT PUBLICATIONS

**Anderson, Theodore, "Antenna Beam Focusing and Steering with Refraction Through a Plasma", EuCAP 2019, presentation and conference symposium. March 2019.**

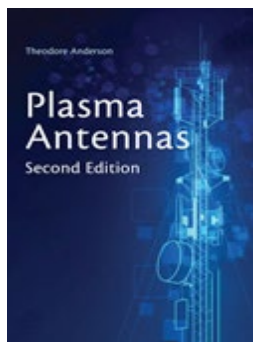
**Anderson, Theodore, "Magnetic Imaging Resolution and Positron Emission Tomography Using Plasma Antennas", EuCAP 2019, presentation and conference symposium. March 2019.**

## Books

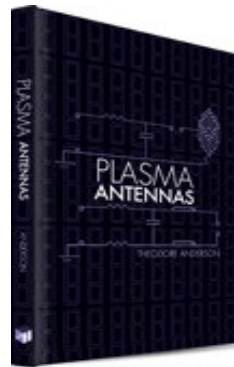
The Second Edition of my book titled “Plasma Antennas”.

See: <https://us.artechhouse.com/Plasma-Antennas-Second-Edition-P2101.aspx>

The Second Edition of my book titled “Plasma Antennas”:



Plasma Antennas, Second Edition,  
Theodore Anderson, Copyright: 2020 Artech House,  
ISBN: 9781630817503



My original book titled “Plasma Antennas”,  
Theodore Anderson, ISBN: ISBN 978-1-60807-  
143-2  
Copyright 2011, Artech House

## Book chapters on plasma antennas by Theodore Anderson.

Theodore Anderson, *Plasma Antennas*, Open access peer-reviewed chapter, *Selected Topics in Plasma Physics*, Submitted: October 21st 2019Reviewed: March 2nd 2020Published: July 14th 2020,  
DOI:10.5772/intechopen.91944

Theodore R. Anderson, chapter 10; *Plasma Antennas*, *Frontiers in Antennas: Next Generation Design & Engineering*, McGraw -Hill, Frank Gross editor. ISBN 0071637931 / 9780071637930

## Popular Mechanics Article On Haleakala R&D, Inc or Dr. Ted Anderson plasma antennas:

Hambling, D.; *Scientists Control Plasma for Practical Applications*; Popular Mechanics; July 2010; page 18; <http://www.popularmechanics.com/technology/engineering/news/scientists-control-plasma-for-practical-applications>

Anderson, T., *An Overview of Experimental and Numerical Results on Plasma Antenna Arrays*, EuCAP Conference Proceedings, April 2015.

Anderson, T., *Numerical Investigation into the Performance of Two Reconfigurable Gaseous Plasma Antennas*, EuCAP Conference Proceedings, April 2014.

Anderson, T., *Plasma Antennas Co-site and Parasitic Antenna Interference Reduction Using Plasma Antennas*, AMTA Conference Proceedings, October 2013

Anderson, T., *Plasma Antennas: Theory, Measurements, and Prototypes*, AMTA Conference Proceedings, October 2013

Anderson, T., IEEE APS/URSI 2014 Paper #1547: *Theory, Measurements, and Prototypes of Plasma Antennas*, Conference Proceedings, July 2014.

Anderson, T., IEEE APS/URSI 2014 Paper #1928: *Plasma Frequency Selective Surfaces*, Conference Proceedings, July 2014.

Anderson, T., IEEE APS/URSI 2014 Paper #1538: *Plasma Antenna VSWR and Co-Site and Parasitic Interference Reduction or Elimination*, Conference Proceedings, July 2014.

Anderson, T., *Smart Plasma Antennas*, AMTA Conference Proceedings, October 2014, See: <http://amta2014.org/>

Anderson, T., *Plasma Antennas: Plasma Satellite and Reflector Antennas*, AMTA Conference Proceedings, October 2014. See: <http://amta2014.org/>

Anderson, T., *Plasma Antennas: Plasma Frequency Selective Surfaces for Antenna Radomes*, AMTA Conference Proceedings, October 2014. See: <http://amta2014.org/>

Presented on plasma antennas at the Antenna Systems Conference in 2008, 2009, 2010, 2011, 2012, 2013, and will present in November 2014. See: <http://www.antennasonline.com/conferences/program/conference-sessions/>

## **Recent Conferences with presentations and booths.**

### **1. 2019 IEEE APS/URSI Conference, Atlanta, Georgia July 7 to July 12, 2019.**

#### **Booth with prototypes:**

I will have booth displaying prototypes for my company Haleakala R&D of my plasma antenna technology at the 2019 IEEE APS Conference in Atlanta July 7 to July 12. See the link and scroll down to Booth 32

<https://www.2019apsursi.org/Exhibitors.asp>

### **2. 5 G Antenna Systems Conference September 26, 2019.**

#### **Presentation and publication:**

Anderson, Theodore; *Antenna Beam Focusing & Steering with Refraction Through a Plasma with Corresponding Circuitry for the Advancement of 5G*  
<https://antennasonline.com/conference-schedule/>

### **3. IEEE International Symposium on Phased Array Systems and Technology, Waltham, Massachusetts October 15-18, 2019.**

**Presentations and publications:**

Anderson, Theodore; *New Smart Plasma Antenna with Radiation Patterns and VSWR Measurements*

Anderson, Theodore *Antenna Beam Focusing and Steering with Refraction Through a Plasma with Corresponding Circuitry*

### **GOVERNMENT AND INDUSTRIAL EXPERIENCE**

*I received my PhD in physics from New York University in 1986. I taught at the University of Connecticut for 12 years and Rensselaer Polytechnic institute for 16 years. I worked on antennas at Naval undersea Warfare Center for 12 years, and I taught antennas and EMI at RPI for several years. I have done extensive antenna testing with network analyzers and Diamond Engineering equipment in various anechoic chambers. I have published more work and have more patents on the plasma antenna than anyone.*

Haleakala Research and Development Inc. founder, CEO and president. 2002 to present

Exponent, Inc; Army Land Warrior Technical Supervisor and Coordinator. Exponent press release:

“Exponent, Inc. (Nasdaq: EXPO), is pleased to announce the addition of **Dr. Theodore R. Anderson**, Senior Systems Engineer, to Exponent's Technology Development Practice. Dr. Anderson's focus will be on Exponent's Land Warrior project with the U.S. Army. Dr. Anderson has a strong technical background and a lengthy record of creativity in the areas of electronics design and analysis, particularly in antenna systems, which are critical to the successful development of a Land Warrior system. *He will supervise the design, analysis, and testing of the electronic components of the Land Warrior system, and its future variants.* 2000-20002

**Knolls Atomic Power Laboratory**

May, 1999-December 2000

- worked with the University of Michigan on finite element electromagnetic codes to solve frequency selective surface filtering. in the infrared spectrum.
- I used the electromagnetics code called FSDA\_PRISM

**Naval Undersea Warfare Center**—New London, CT / Newport, RI

1988 – 1999

Electromagnetic compatibility, digital signal processing, antenna research and design. Fluid dynamics, flow noise, acoustics, and hydroacoustics.

- Used ANSOFT, NEC, and various finite difference time domain codes, and project management for submarine electromagnetics
- I program managed this work
- Began to pioneer plasma antenna technology.

- Pioneered flow noise and hydroacoustics work for towed arrays and SONAR domes. (see publications section).

**Electric Boat, General Dynamics, Groton, CT.** 1983 -1988  
Worked in CFD, flow noise, hydroacoustics, and acoustics.

**Gibbs and Hill Inc., NY, NY** 1980-1983  
Worked on and designed commercial nuclear power plants.

## **TEACHING AND UNIVERSITY POSITIONS.**

**Rensselaer Polytechnic Institute — Troy, NY.**

- I taught radar, antennas, and electromagnetic compatibility in the ECSE Dept. 1999-2015
  - I taught at the Rensselaer Polytechnic Institute, Hartford, CT Branch. 1986- 1999.
- I taught mechanical and electrical engineering. I taught several antenna and EMC courses, several fluid dynamics courses including CFD.**
- **I taught in the RPI Navy Nuclear Program. I taught fusion, reactor physics, Monte Carlo Techniques, shielding, and radioactive waste. 1999-2015.**

**Plug Power.** I taught in house course at Plug Power in Electromagnetic Compatabilty. 2003.

**University of Tennessee, ECE Dept. Research professor. September 2003 to present time.**

**Union College—Schenectady, NY** 1999 – 2001  
I taught mathematical methods for engineers and systems engineering

**University of Connecticut Mechanical engineering, Ocean Engineering, and EE Departments—Avery Point, CT** 1983 – 1995  
Taught physical acoustics, underwater sound with signal processing, special topics in acoustics, acoustical oceanography, and mathematical methods for engineers, hydroacoustics, fluid dynamics and astronomy

**University of Bridgeport—Bridgeport, CT** 1990 – 1999

- I taught mechanical, aeronautical, and management engineering
- I taught project management, quality control, quantitative methods, heat transfer, gas turbines, turbomachinery

**Uniphase Telecommunications Products—Bloomfield, CT** 1997  
• I taught opto-electronics (on-site)

**University of New Haven—New Haven, CT** 1983 – 1988  
• I taught electrical and mechanical engineering

**Hunter College—NYC, NY** 1980 – 1983  
• I taught general physics and astronomy

**Cooper Union School of Engineering—New York, NY.** 1980  
• I taught electronic circuits

## OPTICS BACKGROUND.

1. I modeled the t-matrix for electron-atom scattering in a laser field.
2. I taught optoelectronics at RPI, Hartford, CT. I used texts:
  - a. Principles of Quantum Electronics by Dietrich Marcuse (Jul 1980)
  - b. Optical Electronics in Modern Communications (Oxford Series in Electrical and Computer Engineering) by Amnon Yariv (Mar 13, 1997).
  - c. Quantum Electronics by Amnon Yariv (Jan 17, 1989)
3. I taught fiber optics at RPI, Hartford, CT. I used texts:
  - a. Theory of Dielectric Optical Waveguides (Quantum electronics--principles and applications) by Dietrich Marcuse (Apr 10, 1974).
  - b. Light Transmission Optics (Van Nostrand Reinhold electrical/computer science and engineering series) by Dietrich Marcuse (Aug 1982).
  - c. Principles of Optical Fiber Measurements by Dietrich Marcuse (Jul 28, 1981).
  - d. Fiber-Optic Communication Systems (Wiley Series in Microwave and Optical Engineering) by Govind P. Agrawal (Oct 19, 2010)
4. I taught courses on lasers at RPI, Hartford, CT.
  - a. Laser Fundamentals by William T. Silfvast (Jan 12, 2004)
  - b. Laser Physics by Murray Sargent III, Marlan O. Scully and Willis E. Jr." Lamb (Jan 22, 1978)

## EDUCATION

PhD, Physics, New York University, New York, NY  
(electrodynamics, opto-electronics, atomic physics and fluid dynamics) 1986

MS, Applied Science, New York University 1983

MS, Physics, New York University 1979

Studied engineering at Columbia University, New York City, 1979-1981

Studied Mathematical Physics at the Department de Physique Theorique, Universite de Geneve, Geneva, Switzerland.

## PATENTS BY DR. TED ANDERSON

ISSUED PATENTS (Several of my patents have appeared in the Antennas and Propagation Magazine. )

- 1 [6,710,746](#) [Antenna having reconfigurable length](#)

- 2 [6,700,544](#) [Near-field plasma reader](#)
- 3 [6,674,970](#) [Plasma antenna with two-fluid ionization current](#)
- 4 [6,657,594](#) [Plasma antenna system and method](#)
- 5 [6,650,297](#) [Laser driven plasma antenna utilizing laser modified maxwellian relaxation](#)
- 6 [6,624,719](#) [Reconfigurable electromagnetic waveguide](#)
- 7 [6,512,496](#) [Expandible antenna](#)
- 8 [6,369,763](#) [Reconfigurable plasma antenna](#)
- 9 [6,169,520](#) [Plasma antenna with currents generated by opposed photon beams](#)
- 10 [6,118,407](#) [Horizontal plasma antenna using plasma drift currents](#)
- 11 [6,087,993](#) [Plasma antenna with electro-optical modulator](#)
- 12 [6,087,992](#) [Acoustically driven plasma antenna](#)
- 13 [6,046,705](#) [Standing wave plasma antenna with plasma reflector](#)
- 14 [5,963,169](#) [Multiple tube plasma antenna](#)
15. [6,876,330](#) [Reconfigurable antennas](#)
16. [6,870,517](#) [Configurable arrays for steerable antennas and wireless network incorporating the steerable antennas](#)
17. [6,842,146](#) [Plasma filter antenna system](#)
18. [7,342,549](#). Configurable arrays for steerable antennas and wireless network incorporating the steerable antennas.
19. [6,922,173](#). Reconfigurable scanner and RFID system using the scanner
20. [6,700,544](#). Near-field plasma reader
21. [6,870,517](#). Configurable arrays for steerable antennas and wireless network incorporating the steerable antennas
- 22.. [7,292,191](#). Tunable plasma frequency devices
23. [7,453,403](#). Tunable plasma frequency devices.
24. [8,077,094](#) Plasma device with low thermal noise

Recently Issued patents.

- 1.Reconfigurable scanner and RFID. Patent number RE43,699.
2. Plasma Devices for Steering and Focusing Antenna Beams; U.S. Patent Issue Number: 8,384,602

**Issued plasma waveguide patents.**

1. [6,812,895](#) [Reconfigurable electromagnetic plasma waveguide used as a phase shifter and a horn antenna](#)
2. [6,624,719](#) [Reconfigurable electromagnetic waveguide](#)

**Non-plasma physics patents.**

1. Method And Apparatus For Detecting Misaligned Railroad Tracks, filed 4/11/01, serial number 09/832,087
2. Passive Magnetic Field Sensor Using The Barkhausen Effect To Measure Velocity (Angular Or Linear) Of A Moving Body-filed 4/11/00 serial number 09/548387



3. Portable And Lightweight Ramp Structure, issued 3/4/03, US Patent number 6526614

Take note: I presented my smart plasma antenna at the “Booz Allen Hamilton Technology Petting Zoo” in 2007. See: <https://www.pressreader.com/usa/the-washington-post/20071224/282415574952689>  
My point of contact “Booz Allen Technology Petting Zoo” at Booz Allen Hamilton in Mclean, VA was William Barnett.

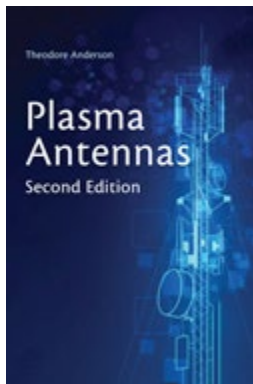
## **PUBLICATIONS (Partial List)**

1. Anderson, T., Perturbation Model for EMC Sources in the Near Field and Shielded by a Ferromagnetic Material, August, 1997. IEEE EMC Society, Catalog Number 97CH36113. Presented at the International Symposium on Electromagnetic Compatibility, August 1997, Austin, TX.
2. Anderson, T., Iterative Model for EMC Sources in the Near Field and Shielded by Composite Materials, August 1997. IEEE EMC Society, Catalog Number 97CH36113. Presented at the International Symposium on Electromagnetic Compatibility, August 1997, Austin, TX.
3. Anderson, T., and Choo V., The Development of a Large Three-Axis Magnetic Field Susceptibility Test (L-TAMFEST), August 1997. IEEE EMC Society, Catalog Number 97CH36113. Presented at the International Symposium on Electromagnetic Compatibility, August 1997, Austin, TX.
4. Anderson, T., Model for Near Field Electromagnetic Shielding by Cylindrical Shells of Composite Materials, NUWC-NPT Technical Report 10,634, 16 October 1996.
5. Anderson, T., Models for the Near Field Interaction of a Magnetic Field Interaction of a Magnetic Field from Point Sources Representing Transformers and Power Supplies and a Ferromagnetic Cylindrical Shell. IEEE EMC Society. Presented at the Santa Clara Convention Center, August 21, 1996.
6. Anderson, T., The Use of Vector Fields to Model the Physical Blockage from Power Supply, Cable, and Transformer Sources. NUWC-NPT Technical Report 11,091, 18 March 1996.
7. Anderson, T., Turbulent Wall Pressure and Wall Shear Fluctuations Calculated from the Orr-Sommerfeld Equation with Nonlinear Forcing Terms. American Institute of Physics, “Chaotic, Fractal, Nonlinear Signal Processing,” AIP Press, Proceedings Number 375, ISBN Number 1-56396-443-0. Presented at the Third Technical Conference on Nonlinear Dynamics (Chaos) and Full Spectrum Processing, July 1995.
8. Anderson, T., Model for Washover of a Buoyant Cylindrical Antenna Towed in Calm and Various Sea States, NUWC-NPT Technical Report 10,753, 23 September 1994.
9. Anderson, T., Wavenumber—Frequency Spectral Densities of Turbulent Wall Pressure Fluctuations, NUWC-NPT Technical Report 10,135, 11 June 1993.
10. Anderson, T., Properties of Continuous Orr-Sommerfeld Waves in a Turbulent Boundary Layer, Bulletin of the American Physical Society, Volume 36, No. 10, November 1991.
11. Anderson, T., Wavenumber—Frequency Spectral Densities of Turbulent Wall Pressure and Wall Shear Fluctuations, Bulletin of the American Physical Society, Volume 35, No. 10, November 1990.
12. Anderson, T., Wavenumber—Frequency Spectral Densities of Turbulent Wall Pressure and Wall Shear Fluctuations, International Union of Theoretical and Applied Mechanics, “Structure of Turbulence and Drag Reduction,” A. Gyr (editor), Springer-Verlag ISBN 3-540-50204-1 and ISBN 0-387-50204-1, July 1989.
13. Anderson, T., Wavenumber—Frequency Spectral Densities of Turbulent Wall Pressure Fluctuations, American Society of Mechanical Engineers, Volume 6, “Acoustical Phenomena and Interaction in Shear Flows over Compliant and Vibrating Surfaces,” 1988.

14. Anderson, T., Time Domain Modeling and Experimental Verification of the Barkhausen Effect used as a Magnetic Field Sensor. Published and presented at the IEEE EMC Society Meeting, August 1998.
15. Anderson, T., and Javor, E., The Design and Modeling of a Large Helmholtz Coil for Low Frequency Magnetic Field Susceptibility Testing. Published and presented at the IEEE EMC Society Meeting, August 1998.
16. Anderson, T., and Derewainy, C., Electrostatics Discharge Sensitive (ESDS) Equipment Susceptibility to Welding Generated Electromagnetic Fields. Published and presented at the IEEE EMC Society Meeting, August 1998.
17. Anderson, T., Development of a Large Three-Axis DC Magnetic Field Susceptibility Test System, ITEM, the International Journal of EMC, 1998.
18. Anderson, T., ELF Plasma Antenna, NUWC Technical Report Number 10,892, May 1998.
19. Anderson, T., Theory, Design, and Submarine Applications of a Plasma Antenna, NUWC Technical Report Number 10,832, May 1998.
20. Anderson, T., Optimal Design of Helmholtz Coils using Variational Principles. Published and presented at the IEEE EMC Society Meeting, August 1999.
21. Anderson, T., Control of Electromagnetic Interference from Arc and Electron Beam Welding by Controlling the Physical Parameters in Arc or Electron Beam: Theoretical Model, 2000 IEEE Symposium Record, Volume 2, pages 695-698, ISBN 0-7803-5677-2
22. Anderson, T. and James Raynolds, Frequency Selective Surfaces Used as Infrared Filters, APS meeting, March 2001
23. Anderson, T. and James Raynolds, Losses in Frequency Selective Surfaces, APS meeting, March 2001
24. Anderson, T., Alexeff, I., Reconfigurable Plasma Frequency Selective Surfaces, Submitted to IEEE Transactions on Plasma Science
25. Anderson, T. Antenna Intensity Patterns Through open Plasma Windows, Submitted to IEEE Transactions on Antennas and Propagation
26. Anderson, T. and Alexeff, I., Theory and Experiments of Plasma Antenna Radiation Emitted Through Plasma Apertures or Windows with Suppressed Back and Side Lobes, International Conference on Plasma Science 2002
27. Anderson, T. and Alexeff, I., Storage And Release Of Electromagnetic Waves by Plasma Antennas and Waveguides, 33<sup>rd</sup> AIAA Plasmadynamics and Lasers Conference 2002
28. Anderson, T. and Alexeff, I., Plasma Frequency Selective Surfaces, International Conference on Plasma Science 2003
29. Anderson, T., Alexeff, I., Reconfigurable Plasma Frequency Selective Surfaces, Submitted to IEEE Transactions on Plasma Science
30. Anderson, T. Antenna Intensity Patterns Through open Plasma Windows, Submitted to IEEE Transactions on Antennas and Propagation
31. Anderson, T. Plasma Frequency Selective Surfaces, 2003 IEEE International Conference on Plasma Science, published in the IEEE Conference Record, IEEE catalog number 03CH37470
32. Anderson, T. , Alexeff, Igor. Theory of Plasma Windowing Antennas, IEEE ICOPS, Baltimore, June 2004
33. Anderson T, Alexeff T, Advances in Plasma Antenna Design, in IEEE Int Conf. Plasma Sci., Monterey, CA, June 20-23, 2005
34. Anderson, Alexeff, Plasma Antennas I , presented at the SMi 8<sup>th</sup> annual Stealth Conference, London March 15-16, 2004
35. Anderson, Alexeff, Plasma Antennas II , presented at the SMi 9<sup>th</sup> annual Stealth Conference, London April 11 -12, 2005

36. Anderson, Alexeff, Plasma Antennas III , presented at the SMi 10<sup>th</sup> annual Stealth Conference, London April, 2006
37. Anderson, T, Alexeff, I , Plasma Antennas-New Developments, , in IEEE Int Conf. Plasma Sci., Traverse City, Michigan, June, 2006
38. Anderson, T., Alexeff, I., Experimental and Theoretical Results with Plasma Antennas, IEEE Transactions on Plasma Science,. Vol. 34 No. 2, April 2006
39. Anderson, T., Alexeff I., Plasma Frequency selective Surfaces, IEEE Transactions on Plasma Science, Vol. 35, no. 2, p. 407, April 2007.
40. Alexeff I., Anderson, T., Recent results for Plasma antennas, Physics of Plasmas, 15, 057104, (2008)
41. Anderson, T., Alexeff I. Plasma Antenna Windowing: Theoretical and experimental Analysis, IEEE Transactions on Plasma Science, being processed for publication.
42. Anderson, Theodore, "Antenna Beam Focusing and Steering with Refraction Through a Plasma", EuCAP 2019, presentation and conference symposium. March 2019.
43. Anderson, Theodore, "Magnetic Imaging Resolution and Positron Emission Tomography Using Plasma Antennas", EuCAP 2019, presentation and conference symposium. March 2019.

## Books



# Plasma Antennas, Second Edition

Theodore Anderson

Copyright: 2020

Pages: 350

ISBN: 9781630817503

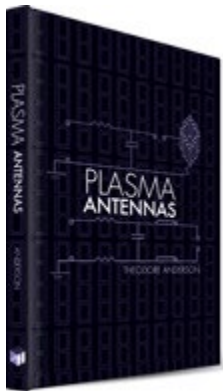
**The Second Edition of my book titled “Plasma Antennas”.**

**See: <https://us.artechhouse.com/Plasma-Antennas-Second-Edition-P2101.aspx>**

Theodore R. Anderson , *Plasma Antennas*, Artech House, ISBN 978-1-60807-143-2; 2011.  
<http://www.artechhouse.com/Plasma-Antennas/b/2130.aspx>

[http://www.amazon.com/Plasma-Antennas-Theodore-Anderson/dp/160807143X/ref=sr\\_1\\_1?s=books&ie=UTF8&qid=1313592208&sr=1-1](http://www.amazon.com/Plasma-Antennas-Theodore-Anderson/dp/160807143X/ref=sr_1_1?s=books&ie=UTF8&qid=1313592208&sr=1-1)

<http://www.barnesandnoble.com/w/plasma-antennas-theodore-anderson/1100484810?ean=9781608071432&itm=2&usri=plasma%2bantennas#CustomerReviews>



### Plasma Antennas

Theodore Anderson, Haleakala Research and Development, Inc.  
ISBN 978-1-60807-143-2

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#### Book Chapters

*Frontiers in Antennas: Next Generation Design & Engineering*, chapter 10; Plasma Antennas, Theodore R. Anderson, McGraw -Hill, Frank Gross editor. ISBN 0071637931 / 9780071637930

Theodore Anderson, *Plasma Antennas*, Open access peer-reviewed chapter, *Selected Topics in Plasma Physics*, Submitted: October 21st 2019Reviewed: March 2nd 2020Published: July 14th 2020, DOI:10.5772/intechopen.91944

## HOBBIES

Theater enthusiast, amateur playwright, national park buff.. I was a power lifting champion.. I have set several state records in Connecticut in power lifting between 1985 and 1997. I continue to do powerlifting and bodybuilding.

## REFERENCES:

1. Professor Alejandra Mercado, professor at the University of Maryland, College Park, Maryland, office phone: (301) 405-3729, cell phone: (301) 233-7212, email: mercado@umd.edu; mercado@ece.umd.edu; alejandra.mercado@gmail.com
4. Professor Mohamed Himdi, IETR (Institut d'Electronique et de Télécommunications de Rennes), UMR CNRS 6164, Université de Rennes 1, Campus de Beaulieu. Bât. 11D, Avenue du Général Leclerc, 35042 RENNES Cedex – FRANCE, Tel : +(33) 2 23 23 67 15, Mobile : +(33) 6 73 60 59 36 email : mohamed.himdi@univ-rennes1.fr
5. Dr. Larry Cohen, Naval Research Laboratory; lawrence.cohen@nrl.navy.mil; 202-404-7726, cell (240) 217-0504, send2larry@msn.com
6. Dr. Fred Dyer, CEO Industrial Instruments, phone 757 817 6207, freddyer66@gmail.com
7. Dr. Kevin Shoemaker, CEO Shoemaker Labs, phone 321 446 2961, shoemakerlabs@gmail.com
8. Dr. Francis Parche, Principal Engineer Harris Corporation, 321 727 4023, fparsche@harris.com
9. Professor Frank Bohlen. Marine Sciences Institute—University of Connecticut, (860) 405-9176

**More references on request.**