Foreword to Dr. Anderson's book, "Plasma Antennas," by Dr. Richard Nadolink, CTO of NUWC (Ret)

Foreword

I have known Dr. Ted Anderson for 25 years as a colleague, scientist, researcher at a naval laboratory, and technical consultant to his company, Haleakala Research and Development, Inc. His new book, *Plasma Antennas*, represents the latest and most comprehensive contribution to the field, and is a unique blend of theory, experiments, the latest developments, prototyping, and intellectual property.

Plasma antennas are at the cutting edge of electromagnetic signal reception and transmission technology, clearly disruptive and rich in potential applications that will prove game-changing to the antenna industry in the near future. The property that is most intriguing, useful and unique is the "stealth" that gaseous antennas (vice metal) provide, which essentially makes them invisible to counterdetection. The military applications are just now being realized and appreciated. The commercial applications are multiple, including mobile satellite HDTV reception without moving parts, and last-mile secure communications.

This book will stand as the ultimate source on plasma antenna technologies for use by graduate students and practicing engineers for years to come. Ted holds more than 20 U.S. patents covering all aspects of plasma antenna technologies, including the rapidly developing market for smart antennas as well as basic physics phenomena.

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