

### An Introduction to Planetary Defense: A Study of Modern Warfare Applied to Extra-Terrestrial Invasion

By Travis S. Taylor, Bob Boan, R.C. Anding, T. Conley Powell



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This book describes a serious look at defending the planet in the event of an extra-terrestrial invasion. Travis Taylor, et al, have written the definitive book on the defense of earth against a potential alien incursion. Whatever your beliefs on the subject, and despite many of my own popular novels I am agnostic at best, the book also serves as an important primer on the potential future of warfare on every level. It is tightly grounded in current day realities of war and extrapolates thoughtfully but closely about future potentials. It should be on the reading list of anyone who is serious about national security and the future of war.



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#### **Editorial Review**

About the Author

Travis Shane Taylor is a born and bred southerner and resides just outside Huntsville, Alabama. He has a Doctorate in Optical Science and Engineering, a Master's degree in Physics, a Master's degree in Aerospace Engineering, all from the University of Alabama in Huntsville; a Master's degree in Astronomy from the Univ. of Western Sydney, and a Bachelor's degree in Electrical Engineering from Auburn University. He is a licensed Professional Engineer in the state of Alabama. Dr. Taylor has worked on various programs for the Department of Defense and NASA for the past sixteen years. He is currently working on several advanced propulsion concepts, very large space telescopes, space based beamed energy systems, future combat technologies and systems, and next generation space launch concepts. He is also involved with multiple MASINT, SIGINT, IMINT, and HUMINT concept studies. He has published over 25 papers and the appendix on solar sailing in the 2nd edition of Deep Space Probes by Greg Matloff.

Dr. Bob Boan has been an active member of the space community for over a quarter of a century. He has worked on a variety of manned and unmanned space programs at different levels of responsibility over that time. Prior to his space experience he was a member of graduate school in several states. Dr. Boan is also recognized as a community expert on SIGINT, IMINT, and Communication systems and concepts. He also has significant MASINT experience. He has multiple relevant patents and technical publications. Dr. Boan has attended a variety of colleges and universities. He received his BS from Campbell University, then Campbell College. His Master's was awarded by the University of Mississippi. He earned his doctorate at the Florida Institute of Technology.

Charles Anding received his bachelor's degree in Electrical Engineering from Mississippi State University in 1978. He has additional studies in systems engineering, digital signal processing and electromagnetic environmental effects. Mr. Anding has applied his creativity and expertise to solve a diversity of engineering problems for over 25 years. He has designed electronics and systems for space, military, industrial and medical products. He was the prime contractor's chief engineer for the design and development of a furnace system to grow semiconductor crystals in microgravity on both the Space Shuttle and the International Space Station. He supported its use on multiple Spacelab missions, including training of the astronauts and sitting console for payload operations Mr. Anding was the chief engineer, along with Dr. Taylor as chief scientist, for the development of a novel new mission and spacecraft for exploring Pluto. He has designed and supported equipment on Navy fighter aircraft, Army main battle tanks, and attack helicopters. Non-invasive cardiac monitors for medical market, industrial robotics for the nuclear segment and user authorized handguns are just a few more examples of his broad experience base. He is currently designing controls for demilitarization of binary chemical weapons and beginning research and development for future fuel cell based power systems for rugged environments as well as building unmanned aerial vehicles for defense purposes. Dr. Thomas Conley Powell holds a B.A. in physics from Berea College, an M.S. in engineering science from the University of Tennessee Space Institute, and a Ph.D. in mechanical engineering from the University of Kentucky. He is a senior scientist with BAE Systems in Huntsville, Alabama. Before joining BAE, he was a faculty member at the Space Institute; a member of the technical staff at Arnold Engineering Development Center, near Tullahoma, Tennessee; and a member of the technical staff of Teledyne Brown Engineering, in Huntsville. He has taught graduate courses in subjects ranging from astrophysics to nuclear engineering, and has worked in areas as diverse as aircraft control and nuclear fusion. However, his specialties are space trajectories, attitude dynamics, and numerical analysis. Recently he has developed an innovative fire-control system for artillery and surface-to-surface and surface-to-space rockets. He is writing

a textbook on orbital mechanics.

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