

Propellantless Propulsion by Electromagnetic Inertia Manipulation: Theory and Experiment

Hector Hugo Brito

*Centro de Investigaciones Aplicadas, Instituto Universitario Aeronáutico
Ruta 20 Km. 6.5, 5022 Córdoba, Argentina
and*

*Facultad de Ingeniería, Universidad Nacional de Río Cuarto
Ruta 36, Km 601, 5800 Río Cuarto, Argentina
Phone: +54-51-659017, Fax: +54-51-650666; hbrito@mahe.com.ar*

Abstract. One of the challenges to create the Space Drive being to discover a self-contained means of propulsion that requires no propellant, it was already shown that a solution to the problem does exist, provided the system is endowed with tensor mass properties. It is found that under the assumption of Minkowski's Energy-Momentum tensor being the right one (Abraham-Minkowski controversy), the electromagnetic field can modify the inertial properties of the generating device... given suitable charge and current distributions. An experiment to settle the question is then proposed, which consists of mounting the device as a seismic mass atop a mechanical suspension. By supplying a periodic voltage to the coils at a frequency close to the fundamental frequency of the seismic suspension, the expected mechanical effect from inertia variation would cause the fixture to resonate, adding up to the microseismic noise induced vibration. Two series of tests were conducted during the period 1993 - 1997; in practically all cases, the results consistently point to a mechanical vibration induced by matter-electromagnetic field momentum exchange, as predicted by Minkowski's formulation, after all other sources of vibration were taken into account, or removed when possible.

INTRODUCTION

Human interstellar exploration may not be possible without the discovery of a self-contained means of propulsion that requires no propellant (Millis, 1997). This formally translates into the problem of achieving "jet-less" propulsion of spaceships that can then be seen as closed systems, i.e., without external assistance. As already shown (Brito, 1998), a mass tensor is found in connection with the closed system consisting of a rocket driven spaceship and its propellant mass, provided a "solidification" point other than the system center of mass is considered in a relativistic covariant formulation. Accordingly, an alternative propulsion principle, named the Covariant Propulsion Principle (C.P.P.), has been derived from this tensor mass approach, being obviously valid at sub-relativistic velocities and not strictly restricted to the rocket propulsion concept. The new principle reads: A spaceship undergoes a propulsion effect when the whole system mass 4-ellipsoid warps.

Thus a formal solution to the problem exists, provided the system is endowed with tensor mass properties. A further analysis of these properties shows that the propulsion effect is to be related to the deviatoric part of the tensor, which exhibits the particularity of producing a non-vanishing linear momentum in the spaceship comoving Lorentzian frame. This situation is reminiscent of the concept of static electromagnetic (EM) field momentum which can develop in the rest frame of a physical arrangement of electric and magnetic sources including polarizable media, as depicted in Figure 1. Different theoretical results are possible depending whether Planck's principle of inertia of energy is satisfied or not in the relationship between the Poynting vector (energy flow density) and the electromagnetic momentum density (Brevik, 1979). The different determinations are based either on the Planck's principle of inertia of the energy, as being valid within polarizable media, too, or upon a generalization of the Jones and Richards' experimental results about radiation fields within the same media (Joyce, 1975). They are therefore related to the group velocity of electromagnetic waves propagation: that for vacuum in one case; that for matter in the other case, respectively.

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Propellantless Propulsion By Electromagnetic Inertia

**Sutardi Sutardi, Bambang
Pramujati, Rickey Dubay, Mamoun Abu-
Ayyad, Jiing Yih Lai**



Propellantless Propulsion By Electromagnetic Inertia:

Achievements of Mechanical Science and Current Technological Innovations for Sustainable Development Sutardi Sutardi, Bambang Pramujati, Rickey Dubay, Mamoun Abu-Ayyad, Jiing Yih Lai, 2016-06-01 Selected peer reviewed papers from the International Conference on Mechanical Engineering ICOME 2015 September 3 5 2015 Bali Indonesia **Frontiers of Propulsion Science** Marc G. Millis, Eric W. Davis, 2009 Frontiers of Propulsion Science is the first ever compilation of emerging science relevant to such notions as space drives warp drives gravity control and faster than light travel the kind of breakthroughs that would revolutionize spaceflight and enable human voyages to other star systems Although these concepts might sound like science fiction they are appearing in growing numbers in reputable scientific journals This is a nascent field where a variety of concepts and issues are being explored in the scientific literature beginning in about the early 1990s The collective status is still in step 1 and 2 of the scientific method with initial observations being made and initial hypotheses being formulated but a small number of approaches are already at step 4 with experiments underway This emerging science combined with the realization that rockets are fundamentally inadequate for interstellar exploration led NASA to support the Breakthrough Propulsion Physics Project from 1996 through 2002 Frontiers of Propulsion Science covers that project as well as other related work so as to provide managers scientists engineers and graduate students with enough starting material that they can comprehend the status of this research and decide if and how to pursue it in more depth themselves Five major sections are included in the book Understanding the Problem lays the groundwork for the technical details to follow Propulsion Without Rockets discusses space drives and gravity control both in general terms and with specific examples Faster Than Light Travel starts with a review of the known relativistic limits followed by the faster than light implications from both general relativity and quantum physics Energy Considerations deals with spacecraft power systems and summarizes the limits of technology based on accrued science and From This Point Forward offers suggestions for how to manage and conduct research on such visionary topics Space Technology and Applications International Forum - 2000 Mohamed S. El-Genk, 2000-01-27 The proceedings document the opportunities for space science onboard the international space station ISS currently under construction by an international consortium These proceedings include the latest on the construction of and payload operations on the ISS human physiology in space fundamental physics engineering research and technology development thermal control technologies for future spacecraft propulsion technology for interstellar precursor missions breakthrough propulsion physics next generation commercial civil space transportation and reusable launch systems technology spaceport development potential manned and unmanned space missions and advances in energy conversion technologies STAIF 2000 is co sponsored by NASA Headquarters and Field Centers DOE and The Boeing Company in cooperation with major professional societies Government aerospace industry and universities exhibit and present papers *EmDrive* Roger Shawyer, 2023-12-12 EmDrive provides a comprehensive description of the theoretical

background of this emerging technology It includes the derivation of the essential equations provides full thruster design details and describes the manufacture and methods of testing that would enable the work to be correctly reproduced in the appropriate research facilities Electromagnetic drive is a proposed method of propulsion that does not require a propellant although it still requires fuel It holds the potential to revolutionize renewable energy production clean and quiet transport and global climate control Having evolved from numerous individual and organizational contributions this book explains the origin and subsequent development of this theory from the original UK government requirement The sequence of experimental devices is covered in detail and the subsequent test results are discussed Similar programmes in the USA and China are introduced and the implications of recent disclosures are considered This book will interest industry professionals working on electromagnetic theory and experimental physics in the fields of aerospace and energy engineering **Space**

Technology and Applications International Forum - STAIF 2005 Mohamed S. El-Genk, 2005-03-03 3rd Symposium on Space Colonization 2nd Symposium on New Frontiers and Future Concepts Albuquerque New Mexico 13 17 February 2005 39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 20-23, 2003, Huntsville, Alabama: 03-4950 - 03-4999 ,2003 International Aerospace Abstracts ,1999 NASA Breakthrough Propulsion Physics Program ,1998

Field Propulsion System for Space Travel Takaaki Musha, Yoshinari Minami, 2011 This e book presents an overview of field propulsion systems for the use of space travel and interstellar travel Such systems include warp drive space drive and gravity control schemes and are propelled receiving the propulsive force derived from an in 37th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit ,2001 **Space Technology and Applications International Forum - STAIF**

2004 American Institute of Physics, 2004-02-18 Albuquerque New Mexico 8 11 February 2004 **NASA Breakthrough Propulsion Physics Workshop Proceedings ,1999** **Lonely Minds in the Universe** Giancarlo Genta, 2007-11-18 XI

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Thomas Valone, 2011-05 This book reviews how man has discovered and used energy throughout the ages with a psychological perspective by using Greek mythology Gods as archetypes Written in layman s terms this resource book also presents a vast array of emerging energy technologies that can help solve mankind s energy problem and global warming New robust and eco friendly sustainable energy technologies are the Future of Energy 35th AIAA/ASME/SAE/ASEE Joint

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Robertson, 2009-04-03 Huntsville Alabama 24-26 February 2009 **Space Technology and Applications International**

Forum - 1998 S. El-Genk, 1998 A set of three casebound volumes discussing space technology and applications **Space**

Technology and Applications International Forum - STAIF 2008 Mohamed S. El-Genk, 2008-01-31 As the British French and Spanish Atlantic empires were torn apart in the Age of Revolution Portugal steadily pursued reforms to tie its American African and European territories more closely together Eventually after a period of revival and prosperity the Luso Brazilian world also succumbed to revolution which ultimately resulted in Brazil s independence from Portugal The first of its kind in the English language to examine the Portuguese Atlantic World in the period from 1750 to 1850 this book reveals that despite formal separation the links and relationships that survived the demise of empire entwined the historical trajectories of Portugal and Brazil even more deeply From constitutionalism to economic policy to the problem of slavery Portuguese and Brazilian statesmen and political writers laboured under the long shadow of empire as they sought to begin anew and forge stable post imperial orders on both sides of the Atlantic *Physics of Electric Propulsion* Robert G. Jahn, 2006-05-26

Literaturangaben Originally published New York NY McGraw Hill 1968 A Proposed Experimental Assessment of a

Possible Propellantless Propulsion System D. Goodwin, 2001

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