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Chapter 1 : Meditation EE Initiation 2, ENERGY CIRCULATION, THE KUNDALINI KRIYAS

IN , MANTAK CHIA INTRODUCED THE MICROCOSMIC ORBIT TO THE WEST. PRIOR TO THAT TIME, MOST OF THE EASTERN ENERGY PRACTICES TRANSMITED TO THE WEST WERE INCOMPLETE, DEALING ONLY WITH THE ASCENDING YANG/MASCULINE CHANNEL, WHICH SHOOTS LIFE FORCE ENERGY UP THE SPINE. THE MICROCOSMIC ORBIT SHOWED.

By , ten more experimental Block-I satellites had been launched to validate the concept. On May 2, "Selective Availability" was discontinued as a result of the executive order, allowing civilian users to receive a non-degraded signal globally. Bush updated the national policy and replaced the executive board with the National Executive Committee for Space-Based Positioning, Navigation, and Timing. Bradford Parkinson , professor of aeronautics and astronautics at Stanford University , conceived the present satellite-based system in the early s and developed it in conjunction with the U. Parkinson served twenty-one years in the Air Force, from to , and retired with the rank of colonel. GPS developer Roger L. Easton received the National Medal of Technology on February 13, The IAF Honors and Awards Committee recognized the uniqueness of the GPS program and the exemplary role it has played in building international collaboration for the benefit of humanity. Basic concept of GPS[edit] This section needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed. The satellites carry very stable atomic clocks that are synchronized with one another and with the ground clocks. Any drift from true time maintained on the ground is corrected daily. In the same manner, the satellite locations are known with great precision. GPS receivers have clocks as well, but they are less stable and less precise. GPS satellites continuously transmit data about their current time and position. A GPS receiver monitors multiple satellites and solves equations to determine the precise position of the receiver and its deviation from true time. At a minimum, four satellites must be in view of the receiver for it to compute four unknown quantities three position coordinates and clock deviation from satellite time. More detailed description[edit] Each GPS satellite continually broadcasts a signal carrier wave with modulation that includes: A pseudorandom code sequence of ones and zeros that is known to the receiver. By time-aligning a receiver-generated version and the receiver-measured version of the code, the time of arrival TOA of a defined point in the code sequence, called an epoch, can be found in the receiver clock time scale A message that includes the time of transmission TOT of the code epoch in GPS time scale and the satellite position at that time Conceptually, the receiver measures the TOAs according to its own clock of four satellite signals. From the TOAs and the TOTs, the receiver forms four time of flight TOF values, which are given the speed of light approximately equivalent to receiver-satellite ranges. The receiver then computes its three-dimensional position and clock deviation from the four TOFs. The height may then be further converted to height relative to the geoid e. These coordinates may be displayed, e. User-satellite geometry[edit] Although usually not formed explicitly in the receiver processing, the conceptual time differences of arrival TDOAs define the measurement geometry. The line connecting the two satellites involved and its extensions forms the axis of the hyperboloid. The receiver is located at the point where three hyperboloids intersect. While simpler to visualize, this is the case only if the receiver has a clock synchronized with the satellite clocks i. There are marked performance benefits to the user carrying a clock synchronized with the satellites. Foremost is that only three satellites are needed to compute a position solution. If it were an essential part of the GPS concept that all users needed to carry a synchronized clock, a smaller number of satellites could be deployed, but the cost and complexity of the user equipment would increase. Receiver in continuous operation[edit] The description above is representative of a receiver start-up situation. Most receivers have a track algorithm , sometimes called a tracker, that combines sets of satellite measurements collected at different timesâ€”in effect, taking advantage of the fact that successive receiver positions are usually close to each other. After a set of measurements are processed, the tracker predicts the receiver location corresponding to the next set of

satellite measurements. When the new measurements are collected, the receiver uses a weighting scheme to combine the new measurements with the tracker prediction. In general, a tracker can a improve receiver position and time accuracy, b reject bad measurements, and c estimate receiver speed and direction. The disadvantage of a tracker is that changes in speed or direction can be computed only with a delay, and that derived direction becomes inaccurate when the distance traveled between two position measurements drops below or near the random error of position measurement. GPS units can use measurements of the Doppler shift of the signals received to compute velocity accurately. In typical GPS operation as a navigator, four or more satellites must be visible to obtain an accurate result. Applications for GPS such as time transfer , traffic signal timing, and synchronization of cell phone base stations , make use of this cheap and highly accurate timing. Some GPS applications use this time for display, or, other than for the basic position calculations, do not use it at all. Although four satellites are required for normal operation, fewer apply in special cases. If one variable is already known, a receiver can determine its position using only three satellites. For example, a ship or aircraft may have known elevation. Some GPS receivers may use additional clues or assumptions such as reusing the last known altitude , dead reckoning , inertial navigation , or including information from the vehicle computer, to give a possibly degraded position when fewer than four satellites are visible. March Learn how and when to remove this template message The current GPS consists of three major segments. These are the space segment, a control segment, and a user segment. Air Force develops, maintains, and operates the space and control segments. GPS satellites broadcast signals from space, and each GPS receiver uses these signals to calculate its three-dimensional location latitude, longitude, and altitude and the current time.

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Chapter 2 : Halo Colonial Horizon Chapter 13, a Halo + Battlestar Galactica: Crossover fanfic | FanFiction

The first stage in opening the Microcosmic Orbit is to open the basic loop of the Governor Channel and Functional Channel. In all subsequent practices, we bring more chi into the Microcosmic Orbit by means of either the Inner Elixir or the Outer Elixir.

The road has taken a beating recently from all of the drills the Army and Marines are running lately. Their normally tan armored hides now turned to white as their reactive painting switched their color to match the recent snowfalls as their size dwarfed the diminutive Warthog and took up nearly the entire width of the highway. The private, knowing that the Admiral was in need to arrive at ONI Sword Base soon, tore around the lumbering warmachines, if 45 miles an hour was lumbering, as the small Urban Warfare sensor suites on each turret of each tank just above the main mm railgun tracked the vehicle and marked it as friendly after running a quick database check on the occupants. Cole turned to the Private, "Well that is one reason son. A battery of those gives us some firepower to hit them back from the surface, as with the larger Mass Drivers now being built into most bases. Twenty Minutes Later "So that is all that we know? Any ideas on how long they can last? As if on que the holo viewer morphed into a video showing several Colonial warships in orbit of a moon haplessly pounding away at a Covenant destroyer at visual range with every gun they had as the alien ship laughed it off, shields pulsing in electric fire as it simply fired two plasma lances that nearly bisected the smaller Colonial ship before the ship turned into an eyewatering nova as the other, larger human ship, a smaller battlestar lost its port hangar pod as explosive decompression tore through it. Along with himself sat Admiral Stanforth to his left, and General Kits to his left, the highest ranking Member of the Marine Corps on Reach at the moment. Across the table sat none other than Parangasky and Commander Ned Rich. Sure they will get a few of them but at tremendous costs. As surely as we all know more and more Covenant ships will come into their systems and that will be the end of it. The Colonials, while technologically behind us, still are just advanced enough to put up a fight that regardless of the Covenant advance will take time, precious time that we can exploit to regroup our forces and prepare for the next Covenant assault on the Invasion Corridor. However if we do help these Colonials their chances for putting up a much longer "stalling" action against the Covenant increases, and will force the Covenant to divert more forces there and buy us even more time. They will likely be just as hostile towards us. So use your best judgment. The list of the ships we are going to pull for this op are on your data pad. Even he had to be impressed with the force allotted to him. As the door closed Parangoski turned to the other admirals. I want our forces on the Invasion corridor to be briefed for a possible contact with the Colonials, even if both us and them are far more busy dealing with these xeno bastards. Especially with the fleet we are sending to their home system? They blew right through our first flight of Vipers sir! Lords they are quick! They are having limited effect! Only direct fire from our auto cannons is doing anything! Several Seraphs fell to streams of canon fire from a flight of Vipers, the 25mm slugs finally managing to beat down the shields and tear holes into the ship beneath, with one Seraph damaged while another suddenly spun out of formation leaking drive plumes as yet another turned into an eye watering smear in space. At the same time five Vipers were simply shattered or torn asunder by energy weapons fire from a streaking flight of angry Covenant fighters. At the same time another wing of the thrice accurse alien fighters appeared on the DRADIS, speeding towards the Galactica like sharks smelling blood. Are any of the FTL capable? I have a contact incoming at long range, about , kilometers out and closing, battlestar sized contact! The CIC shook again as a Seraph slipped through the fighter screen and past the streams of cannon fire and added yet more damage to the worn hull of the warship. Agathon reports five deckhands are unaccounted for and ten more wounded! Thirty gunboat sized contacts with fifteen more fighter escorts! They are coming in fast! Yet once more those accursed energy barriers flashed to life as her rounds harmlessly bounced off. The alien fighter flipped around and fired a double burst of blue energy pulses as her, causing her cockpit to strobe with light as at the last second she slammed down the controls of her ventral maneuvering thrusters and shot

"up" out of the line of fire with feet to spare. Normally such an action would have been an extreme example of overkill and would have the pilot being scolded for the waste of ammunition by the weapons chief, however against shielded enemy fighters it was just enough to do the job. The Seraph disappeared in a cloud of fire as it went spinning away helplessly trailing blue drive plumes and debris, half of its frame snapped in two. Satisfied with her kill She flipped her fighter over to race back into the real fight as she took stock of the situation. The area of space all around the Galactica was nothing but a constant mess of debris, ion drive plumes and streams of auto cannon rounds and flak and alien energy weapon pulses. The wireless was so full of cries for orders, screams of victories and status reports that Starbuck had to localize her frequency. The Shuttle, a slow and ungainly target never the less was plowing straight towards the starboard flight pod at a full burn, or as fast as the craft could move as Vipers and Alien fighters shot past all around it. Targets coming in hot! From our six, they are going for the shuttle! Sure enough two more of those bastard tear drop fighters had slingshotted around the fight, casually blasting one Viper out of the sky as they barreled straight at the shuttle on an intercepting angle, only miles away and seconds from turning the unarmed ship into molten debris. Fire on the one of the right together, maybe we can drop its shields faster and have time to switch targets. The seconds seemed to turn into hours as the stars spun around her and the barren surface of the moon Minos hung "below" her. The Covenant fighters with their superior range and weapons could ave simply struck the Vipers from outside of their weapons range, but for some reason the pilots wanted to get up close and personal, which the Colonials were happy to oblige. Giving Lee and Starbuck an unprecedented three seconds of clear aim to pour the fire on it. It was either going to take her out or ram her. Without a thought she jammed the firing stud, the Viper ratting as its three auto cannons spat flame and slugs at the now unshielded enemy fighter. She had no time to maneuver. By a stroke of some remarkable luck the twin bolts of plasma went wideâ€¦past either side of the fuselage of the Viper with inches to spare as the temperature inside the cockpit briefly rose. Her cannon shells on the other hand tore into nose of the Covenant fighter, apparently hitting something vital. The craft exploded in a cloud of debris and bluish drive plumes as the debris and remnants of the Seraph rocketed past her, just barely avoiding her Viper. The other Covenant fighter had blasted right by Starbuck. Swearing and cursing Starbuck flipped the Viper around on its axis with her thrusters to see the shrinking form of the Covenant fighter charging right for the unarmed shuttle, intent on taking it out. I am not in range! Four red beams of light speared out, bisecting the darkness of space and the stars and hit the shields of the Covenant Seraph. Its shields burned bright for two seconds as the beams pulsed at thousands of times a second, appearing like a continuous beam to the naked eye before the shields of the Covenant craft shattered with an electrical spark. The thinner hull of the alien starfighter simply melted and was cored through as the beams travelled the length of the fighter, hitting the main drive. The Covenant fighter turned into a smear in space just as two quick streams of bluish orange tracers tracked another fighter, originating out of Starbucks line of sight. The shields of the craft resisted for half of a second before they collapsed and the fighter beneath was shredded. It looked almost like it had wings, like a bird of prey or one of those manta ray sea creatures that lived in the seas of Picon. It was no larger than a gunboat and she could barely make out the two obvious weapons emplacements, two turrets of unknown design that were spitting out high velocity projectiles at the Covenant fighters with much greater effect than the auto cannons of Galactica. On the prow of the vessel she could just barely make out writing on its side. It took a second for her to remember where she had seen the un readable scribbling before. Get us to the far side of the moon and try and contact that thing. I think they may be trying to get aboard the port side flight pod! That only lasted a second more as streams of orange traces flew towards the Covenant Dropshipts, known to the UNSC as Phantoms by their callsign. The much thicker hulls of the Phantoms resisted the streams of 30m fire for far longer as the Covenant pilots began jinking and dodging, trying to throw off the aim as they never the less still kept coming. Then another dropship disappeared from the screen as Dee chimed in. We are about to have hostile boarders. Helix Guns at 95 percent ammunition capacity. Engines at 30 percent and Reactor at seventy percent. Most waves are being absorbed by the hull. However even if those cannons are electro-thermal â€”chemical guns

like our MA6 rifles and not railgun mounts they still will shatter us at this range. Those Phantoms managed to land inside the starboard hanger pod of the Galactica! If the Colonials had fared poorly against a team of ODSTs and a Spartan, he could only imagine how they would fare against 8 foot tall aliens with energy weapons and personal shields. However he still frowned. They would be cutting it close. We are currently engaged with hostile boarders on multiple decks and dealing with multiple hull breaches. We are fleeing the battlezone and sling shoting around the moon Minos. State your intentions or you will be fired upon. He turned to Fallon "You have control over our emergency boosters. If you detect that those main guns are going to fire the micro second you do get us out of the way if you can and launch one of our remaining nukes at them. Give me a link to this Adama. We wish to assist in your conflict against the Covenant threat. Do we have a shot! Adama looked at the crew as yet more status alerts rang out. The alien soldiers had already nearly taken control of the entire starboard flight pod and the first reports from the Marines did not look pretty. He put the handset back up to his ear. We have boarders that our threating our control of this ship, and our initial reports do not look good. Just how can yourâ€¦. They know how to fight the Covenant better than we do. They are higly trained and heavily armed, but warn your people that they are coming. They will not react well to being shot at by your people. Adama took one last look at Tigh before nodding. Your review has been posted.

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Chapter 3 : Healing Light of the Tao : Mantak Chia :

In , Mantak Chia introduced the "Microcosmic Orbit" to the West. Prior to that time, most of the Eastern energy practices transmitted to the West were incomplete, dealing only with the ascending yang/masculine channel, which shoots life-force energy up the spine.

Ion thrusters are designed to provide continuous operation for intervals of weeks to years. The lifetime of electrostatic ion thrusters is limited by several processes. In electrostatic gridded designs, charge-exchange ions produced by the beam ions with the neutral gas flow can be accelerated towards the negatively biased accelerator grid and cause grid erosion. End-of-life is reached when either the grid structure fails or the holes in the grid become large enough that ion extraction is substantially affected; e. Grid erosion cannot be avoided and is the major lifetime-limiting factor. Thorough grid design and material selection enable lifetimes of 20, hours or more. Post-test examination indicated the engine was not approaching failure. The total impulse generated would require over 10, kilograms of conventional rocket propellant for a similar application. The Advanced Electric Propulsion System AEPS is expected to accumulate about 5, hr and the design aims to achieve a flight model that offers a half-life of at least 23, hours [52] and a full life of about 50, hours. Propellants[edit] Ionization energy represents a large percentage of the energy needed to run ion drives. In addition, the propellant should not erode the thruster to any great degree to permit long life; and should not contaminate the vehicle. However, xenon is globally in short supply and expensive. Older designs used mercury , but this is toxic and expensive, tended to contaminate the vehicle with the metal and was difficult to feed accurately. Other propellants, such as bismuth and iodine , show promise, particularly for gridless designs, such as Hall effect thrusters. However, in current tests the most practical propellant is argon , which is relatively abundant and inexpensive. Note that peak vehicle efficiency occurs at about 1. Ion thruster efficiency is the kinetic energy of the exhaust jet emitted per second divided by the electrical power into the device. Overall system energy efficiency is determined by the propulsive efficiency , which depends on vehicle speed and exhaust speed. Some thrusters can vary exhaust speed in operation, but all can be designed with different exhaust speeds. At the lower end of specific impulse, Isp, the overall efficiency drops, because ionization takes up a larger percentage energy and at the high end propulsive efficiency is reduced. Optimal efficiencies and exhaust velocities for any given mission can be calculated to give minimum overall cost. Missions[edit] Ion thrusters have many in-space propulsion applications. The best applications make use of the long mission interval when significant thrust is not needed. Examples of this include orbit transfers, attitude adjustments, drag compensation for low Earth orbits , fine adjustments for scientific missions and cargo transport between propellant depots , e. Ion thrusters can also be used for interplanetary and deep-space missions where acceleration rates are not crucial. Continuous thrust over a long interval can reach high velocities while consuming far less fuel than traditional chemical rockets. Among electric thrusters, ion thrusters have received the most serious commercial and academic consideration. Ion thrusters are seen as the best solution for these missions, as they require high change in velocity but do not require rapid acceleration. These were electrostatic ion thrusters using mercury and cesium as the reaction mass. SERT-II, launched on February 3, , [57] [58] verified the operation of two mercury ion engines for thousands of running hours. Boeing [62] began using ion thrusters for station-keeping in and planned in â€”14 to offer a variant on their platform, with no chemical engine and ion thrusters for orbit raising; this permits a significantly lower launch mass for a given satellite capability. AEHF-2 used a chemical engine to raise perigee to 10, miles and proceeded to geosynchronous orbit using electric propulsion. It used ion propulsion throughout its twenty-month mission to combat the air-drag it experienced in its low orbit altitude of kilometres before intentionally deorbiting on November 11, It was space-tested in the highly successful space probe Deep Space 1 , launched in This was the first use of electric propulsion as the interplanetary propulsion system on a science mission. It was powered by four xenon ion engines. Dawn[edit] Dawn launched on September 27, ,

to explore the asteroid Vesta and the dwarf planet Ceres. It used three Deep Space 1 heritage xenon ion thrusters firing one at a time. It does not use ion thrusters as its primary propulsion system, but uses both colloid thrusters and FEEP for precise attitude control â€" the low thrusts of these propulsion devices make it possible to move the spacecraft incremental distances accurately. It is a test for the possible LISA mission. The mission ended on December 30, It is targeting launch on a commercial vehicle in The mission would investigate its plasma and magnetic structure, including transient plasma structures, magnetic field structure, magnetic activity and correlation with solar wind drivers.

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Chapter 9 : Energy Enhancement Meditation Course Level 1 Initiation 2: Energy Circulation:

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