



# Classical Temperature Drive Augmented Christmas Tree Space Sails. Volume 12.

*James M Essig*

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This new series of books includes formulaic augmentations to the concepts addressed in Volumes 1 thru 93 of the series Christmas Tree Space Sails, Volumes 1 thru 23 of Superchromatic Beam Augmented Christmas Tree Space Sails, and Volumes 1 thru 22 of Space-Time Real Energy Christmas Tree Space Sails. More specifically, the new material includes formulaic modifications to denote the possibility that random motion of the atoms, molecules, or other constituents of Christmas Tree Sails can be collated into forward jumps of the entire spacecraft in manners for which the spacecraft undergoes an according step-wise jump in position and thus in effective propulsion power. Such a spacecraft may be heated or cooled to enable the effect. Alternatively, a portion of the spacecraft may be heated to extreme temperatures for which the very hot portion undergoes a thermal jump to thus tow and/or push the remainder of the spacecraft forward. For cases where the heated portion is close in temperature to the that associated with nuclear reactions, relativistic scale velocity increases are plausible. The temperature of the heated portion of the spacecraft is theoretically limited to only the Planck Temperature thus enabling ultra-relativistic space-craft effective velocity and associated propulsive power jumps even in cases where the super-heated portion is a very small fraction of the spacecraft. The thermal jump feature is applicable to every mode of spacecraft power. The following operator is inserted into the formulas presented in this series to indicate the derived net or effective global power increases for each spacecraft linear power term to account for the thermal jump feature for which time derivatives of spacecraft energy are then used to express the linear power terms in the formula.  $\{f[[\text{Context Of Thermal Jump},j],[(\text{Jump Angle}),j],[(\text{Fraction Of Spacecraft Jump}),j],[(\text{Net Temperature Of Jumping Portion}),j],[(\text{Elastic Rebound As Function Of Jump}),j],[(\text{Elastic Rebound Energy Capture And Recycling}),j]]\}$ . Accordingly, the factor takes into account: 1) the context in which it is applied; 2) the effective jump angle relative to the spacecraft frame including overall spacecraft velocity vector; 3) the fraction of the spacecraft that undergoes the first order jumping; 4) the net effective temperature of the jumping portion of the spacecraft; 5) the losses in spacecraft jumping power due to elastic rebound associated with jumping portions of the spacecraft; 6) the recycling of elastic rebound energy.



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