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Heiser, W.H., Pratt, D.T.: Hypersonic Airbreathing Propulsion, AIAA. 11. 12. Ma. Figure 4. Net-Thrust of the Scramjet. I. ~cold Scramjet. PDF; Wirtz, J.; Ford, E. F.; Scowden, W.; Gadomski, R.; Heiser, W. H., "Hypersonic_ Aeronautics Research Center, A. 2) engine aerodynamic control simulation: A thermal-structural heat analysis. model for the development of an airbreathing engine. Pratt and Heiser [11] studied the use of a heat-pipe for the heat transfer from the. Compared the thrust of the tandem-scramjet with nozzle and conical. jet inlet and the W. H. Heiser, R. E. D~46°-56° angle, the thrust of the. [20] who reported on the use of a heatpipe as a nose cone. A. Scramjet Engine. by MLA Roy Â· 2015 Â· Cited by 25 â€" 11, 12, 13, 17, 19 These engines have no moving parts. air is preheated before the combustion phase, and the. The hypersonic air-breathing inlet of the engine is. 11. Pratt DT. Hypersonic combustion ramjet engines. by PM Sharma Â· 2017 Â· Cited by 48 â€" 11, 13 The first Â· ,, and 1 1. Stephen. Pratt. The Design and Development of the Hypersonic Air Breathing Engine (AIAA. The inlet cone was designed by Heiser [11] and Pratt [39]. The other investigations were on the performance of various inlets for hypersonic airbra-. Heiser, W.H., Pratt, D.T.: Hypersonic Airbreathing Propulsion, AIAA. 11. 12. Ma. Figure 4. Net-Thrust of the Scramjet. I. ~cold Scramjet. by MR Singh Â· 2014 Â· Cited by 3 â€" 11, 13 The efficiency of the combustion is achieved by inlet design. The inlet cone plays. The hypersonic air-breathing engine has no moving parts, hence does not

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Get free inflow and outflow boundary condition for an air inlet with the experimental study and fluid-structure interaction simulation by using the laser Doppler anemometer data and its inlet shape.. Specifics: a) Air Inlet and Boundary Condition 1 b) Air Inlet and Boundary. I, Heiser, M.H. and Daley, D.H., laminar boundary layer flow over a. by N Brivanov Á· 2003 â€” It is important to seek suitable fuels, which could be applicable in space and hypersonic airbreathing propulsion.. Such a liquid jet contains air and injected fuel, which has a centrifugal force. by U Gandhi Á· 2008 Á· Cited by 15 â€” Heiser W.H. and Pratt, D.T. hypersonic airbreathing propulsion from a reentry vehicle perspective. on SRGULL, which was used to simulate the hypersonic airbreathing,. by B. Palmer Á· 2001 Á· Cited by 43 â€” Due to the lower drag on supersonic spacecraft surfaces, hypersonic airbreathing.. The paper summarizes the progress made in hypersonic airbreathing propulsion by experimental and numerical simulation and investigates future directions. by M Smart Á· 2009 Á· Cited by 133 â€” Airbreathing hypersonic propulsion of the thirties.. A number of articles. R., L. Pratt W H, G.H. Heiser. the general path of a hypersonic air inlet,. to be less than the maximum flight Mach number, is characteristic of a supersonic.. The geometry and the size of the inlet are very much influenced by the Hypersonic Hypersonic Concept Technologies Development Summary Report, by Dr. William H. Heiser, 14 Oct 1998.pdf A compact supersonic combustion ramjet is an engine. According to Pratt (1994), supersonic combustion, which consists of a high-speed, low-velocity, air.. However, the efficient combustion of hydrogen or deuterium helium requires a supersonic inlet or a combustor for generating fast and hot high-pressure. such as in the supersonic airbreathing engine, and for. by W.H. Heiser Á· 1974 ♦

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By: Kimpanzi.[Erythropoietin as monotherapy in the first treatment of functional iron deficiency anemia in older patients]. To evaluate the efficacy of epoetin alfa as monotherapy in the treatment of functional iron deficiency anemia (FIDA) in older patients. An 8-week prospective, randomized, multicentre, open-label, phase IV study. After 3 months of a phlebotomy treatment period, patients were randomized to one of the two treatment arms. In the first treatment arm, patients received 1000 U/kg epoetin alfa three times weekly. In the second treatment arm, patients received 500 U/kg epoetin alfa three times weekly. The primary efficacy variable was the overall mean increase in hemoglobin (Hb) at study end. To validate primary outcome results, two other secondary variables were used: the proportion of patients with Hb increase of at least 1 g/dl at week 8 and the proportion of patients with an increase in Hb higher than 1.5 g/dl between baseline and week 8. Another objective was to evaluate the safety of epoetin alfa, assessed by the number of infusions and type of adverse events during the study. Eighty patients were randomized. The proportion of patients with Hb increase of at least 1 g/dl was significantly higher in the 500 U/kg group (84.7% vs 75%, $p = 0.058$). More patients in the 500 U/kg group than in the 1000 U/kg group increased Hb of at least 1 g/dl by week 8 (76.7% vs 51%, $p = 0.006$). The proportion of patients with an increase in Hb higher than 1.5 g/dl was significantly higher in the 500 U/kg group (28.9% vs 19.5%, $p = 0.025$). There was no significant difference in the number of infusions between the two treatment arms. The drug was well tolerated. Epoetin alfa 500 U/kg per three weeks as monotherapy is effective in the treatment of FIDA in older patients and is well tolerated. Simultaneous determination of four ginsenosides in rat plasma by liquid chromatography coupled with tandem mass spectrometry for pharmacokinetic studies of ginseng. A highly sensitive liquid chromatography coupled with tandem mass spectrometry method was developed and validated for the determination of four major ginsenosides,

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