

**high-performance parallel analysis of coupled problems for ...** - the first parallel computations of a jet engine, presented in the first progress report of July 1993 and reproduced here as appendix i, dealt with the fluid flow within a jet engine structure that is **high-performance parallel analysis of coupled problems for ...** - the first parallel computations of a jet engine, presented in the first progress report, dealt with the fluid flow within a jet engine structure that is considered rigid and hence provides only guiding boundary conditions for the gas flow. **selection of key data variables using sensitivity analysis ...** - selection of key data variables using sensitivity analysis to predict jet engine maintenance removals with neural networks gary r. weckman, robert a. mclauchlan and danish s. siddiqui **virtualizing high-performance computing (hpc ... - vmware** - the parallel file system is usually used as scratch space and intended for work that requires optimized i/o. examples include workload setup, pre-processing, running, and post-processing. **turbine - ksu faculty** - in the gas turbine jet engine is the addition of the jet pipe and propelling nozzle. the earliest commercial jet aircrafts used a single-spool turbojet engine (fig.7). figure 6 structure of **jet engine** figure 7 the earliest commercial jet engine . auxiliary power units figure 8 apu exhaust at an airbus aircraft apus are small gas turbines designed for auxiliary power of larger ... **distributed control systems for aero gas turbine engines ...** - jet engine is very different from the automotive applications " the functionality is very highly coupled and almost wholly dependant on real-time communications. **tracking jet engines - ansys** - part in a particular jet engine needs to be replaced or serviced. using this system, service technicians at external customer organizations can save time, reduce costs and improve safety by treating each engine based on its own unique history. volvo aero develops and produces components for aircraft, rocket and gas turbine engines that have a high-technology content. the company's project to ... **soundcard based dynamic balancing machine for model gas ...** - soundcard based dynamic balancing machine for model gas turbine mikl's t. koncz, hungary, (kmiklos@vnet) abstract ... keywords: dynamic balancing, soft suspension, in situ balancing, gas turbine, jet engine, soundcard, rc, digital signal processing, dynamic unbalance, static unbalance, couple unbalance ... **business process management overview - bcs** - building a new jet engine - parts and assembly process . bea confidential | 13 for clarity processes can be broken into two categories! process orientated (system to system) . weblogic integration, tibco rdvz, ibm websphere mq/si, sourcecode/k2/biztalk , sap netweaver human orientated (workflow / interaction) . aqualogic business process management suite ... **aerospace applications of control - caltech computing** - jet engine control 2. electric generator transmission control 3. combustion analysis & control . 4 jet engine control objectives track commanded thrust while maintaining constraints thermal efficiency increases with burner temperature - nominal temperatures near melting point of parts - temperature overshoots rapidly degrade turbine life pressure and flow constraints on compressor stages, to ... **a vision for the future evolution of aircraft - icas** - a vision for the future evolution of aircraft the potential market for civil applications include disaster and emergency monitoring, border patrol, weather and atmospheric **paint robots in the automotive industry** " **process and cost ...** - paint robots in the automotive industry " process and cost optimization abb flexible automation gmbh is one of the world's leading manufacturers of paint robots. most robots of this kind are installed in the automotive industry, the majority of them for coating car bodies. current practice for such applications is to have 10 robots operating in one paint station. further development of ... **parallel and distributed dimensionality reduction of ...** - apache spark as the computing engine, and is developed based on the map-reduce parallel model, taking full advantage of the high throughput access and high performance distributed computing capabilities of cloud computing environments. we first optimized the traditional pca algorithm to be well suited for parallel and distributed computing, and then we implemented it on a real cloud ...

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