

## Palaestra (31)



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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 44 pages. Original publisher: Washington, DC: Center for Technology and National Security Policy, National Defense University, 2006. OCLC Number: (OCoLC)352905539 Subject: Military research. Excerpt: . . . Spall-resistant bearing materials Special compressor design for high rpm Run-dry oil reservoir at bearings ( discussed below ) Special cleanliness for oil sump ( clean room spec ) Redesign of air flows to avoid slow speed stalls No lockwires to secure bolts for reduced maintenance While most of the work on the engine was done on contract, the Army engineers co-located at NASA Glenn in Cleveland conducted 6. 1 and 6. 2 work that supported the contractual effort and focused on the problems arising during the development of the 32 Apache. They worked on the shape of the air foils in the turbine, on the cooling system, on pitting in metals, and on lubrication. They ran in-house engine tests in which they mapped engine temperatures, measured heat distortions and overheating, and took heat transfer data. They also studied contingency power, i. e. , the availability of power in the event of an emergency, particularly the loss of one engine. More recently, they have studied the possible extension of the operating life of the engine and the reuse of some components during major overhaul. They have devised inspection protocols, including methods and timing of crack detection in the metals. Army engineers made the fruits of 33 all this labor, including data sets from tests and experiments, available to industry. This important work laid the foundation for several engine-related technical innovations. One especially successful piece of Army 6. 1 work at NASA Glenn was related to the process, now standard in the industry, for applying ceramic coatings to line the CTE 6 combustor...



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