



L'Art de Connaître Les Hommes

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 158 pages. Original publisher: Cleveland, Ohio : NASA Lewis Research Center, 1987 OCLC Number: (GPO)apn1992-042701 Excerpt: . . . GAS TURBINE DIVISION I Allison General Motors Corporat, on 2. 0 INTRODUCTION Prop-Fan propulsion system technology was reviewed extensively in the NASA sponsored Advanced Prop-Fan Engine Technology (APET) Definition Studies (Ref i) performed by three major U. S. gas turbine engine manufacturers--Allison, Pratt and Whitney, and General Electric. All three studies identified the po-tential fuel savings of Prop-Fan powered aircraft compared to turbofans of the same technology level. As a part of that study, technology needs were evalu-ated for purposes of defining the technology needs of production model Prop-Fan propulsion systems of the early 1990s. The conclusion from the APET study was that a major gearbox technology project is needed to develop long llfe, low maintenance gearboxes suitable for commercial airline service. An immedi-ate response to this recommendation was an extension of the APET study to pro-vide an in depth look at single rotation and counterrotation gearboxes and Prop-Fan pitch change systems in the i0, 000 shp power class. These prelimi-nary design activities identified design...



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