EIGHTEENTH EUROPEAN ROTORCRAFT
FORUM

Organized by:

ASSOCIATION AERONAUTIQUE ET ASTRONAUTIQUE DE FRANCE

Groupe de Provence

AVIGNON

September 15th, 16th and 17th 1992
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A perspective on the helicopter Industry.*

OS2
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504 SP4
Ph. GODDARD (WHL UK) & Ph. REINA (AGUSTA ITALY)
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505 SP5
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Will rotor hubs lose their bearings? A survey of bearingless main rotor development.

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(*) Papers not received for printing on deadline.
Sectional prediction of 3-D effects for separated flow on rotating blades.

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Application of European CFD methods for helicopter rotors in forward flight.

The influence of variable flow velocity on unsteady airfoil behavior.

An examination of the effects of blade-vortex interaction of flows near the blade tip.

Measurement of helicopter rotor tip vortices using the "flow visualization gun" technique.

EUROFAR rotor: aerodynamic tests.

Reconstruction of spanwise airload distribution on rotor blades from structural flight test data.

Factor analysis of coaxial rotors aerodynamics in hover.

Unsteady free wake analysis of closely interfering helicopter rotors.

A numerical procedure for aerodynamic optimization of helicopter rotor blades.

Computation of high resolution unsteady airloads using a constant vorticity contour free wake model.

Influence of non-planar blade tips on rotor performance.

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Flight path calculations for a helicopter in autorotative landing.

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Experimental investigations into aerodynamic peculiarities of a helicopter with jet control system.

(*) Papers not received for printing on deadline.
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*A. Nurick, C. Groesbeek (South-Africa)*
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(*) Papers not received for printing on deadline.
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Individual-blade-control of hinged blades using smart structures.*

Parametric identification of a helicopter motion dynamics model using methods of optimum control theory.

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Numerical calculation of helicopter rotor equations & comparison with experiment.

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(*) Papers not received for printing on deadline.
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(*) Papers not received for printing on deadline.
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4. PH. ROLLET - C. THIBAUDAT (FRANCE)
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6. D. TEVES - V. KLOPPEL - P. RICHTER (GERMANY)
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7. R. PEZZONI, L. MERLETTI - G. BATTAGIN, R. DENIS (ITALY)
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(*) Papers not received for printing on deadline.
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P. BRARD (FRANCE)
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A. LERCHING, S. WAGNER (GERMANY)
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E. KISU, Y.K. YILIKCI (TURKEY)
Conceptual design of a stopped rotor with flap controls.*

B. BENOIT, G. ARNAUD (FRANCE)
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R. STANGL, S. WAGNER (GERMANY)
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(*) Papers not received for printing on deadline.
Contribution to performance assessment of helicopter rotor speed control by numeric optimization.

A rotorcraft turbulence model.

Development of a smart rotor: a feasibility study.

Experience in fabricating polymeric composite rotor blades.

Life prediction of helicopter engines filled with dust filters.

Bird strike hazards to helicopter in Western Europe.

An investigation of dynamic stall through the application of leading edge roughness.

(*) Papers not received for printing on deadline.