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Title :	MODEL FOLLOWING CONTROL FOR A LIGHT COMBAT AIRCRAFT	*Document No.* PD-SE-8811/JULY 26,1988 *Date of issue:*
Author(s) :	A. SANTHARAM	*Contents* Pages 16, Tables 4, Figures 24
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Abstract : The design of a candidate control law for LCA to improve longitudinal handling quality by satisfying C* criteria which is a blend of normal acceleration and pitch rate is addressed The model following control technic used, wherein the pilot input goes through a dynamic C* model and feed forward gains so that the C* of aircraft is forced to follow that of the model in addition to satisfying short period damping and natural frequency requirements. The perfect model following, optimal model following and pole placement technics are used for computing feed back and feed forward gains.