



Short Discourses, for the Use of Families

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 108 pages. Original publisher: Washington, D. C. : National Aeronautics and Space Administration, Office of Management, Scientific and Technical Information Division ; Springfield, Va. : For sale by the National Technical Information Service, 1990. OCLC Number: (OCoLC)34371010 Subject: Rotors (Helicopters) -- Aerodynamics -- Computer simulation. Excerpt: . . . From a given set of collocation point locations for each filament the local tangent, normal, and binormal vectors at each collocation point are determined. These vectors are derived from helical arcs passed through each set of three points. As mentioned, the desired solution is reached when the total velocity vector is tangent to the wake curve at every blade collocation point, at each point. This total velocity vector at any point includes the local self-induced effect (SIVE), the contributions from the rest of the wake (BCand. and the velocity induced by the bound circulation on the rotor blades, stem swirl velocity component associated with the rotating coordinate system local normal and binormal vectors can be used to define a crossflow at each collocation point, as shown in Figure 3. If the total velocity at a point has a component in...



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