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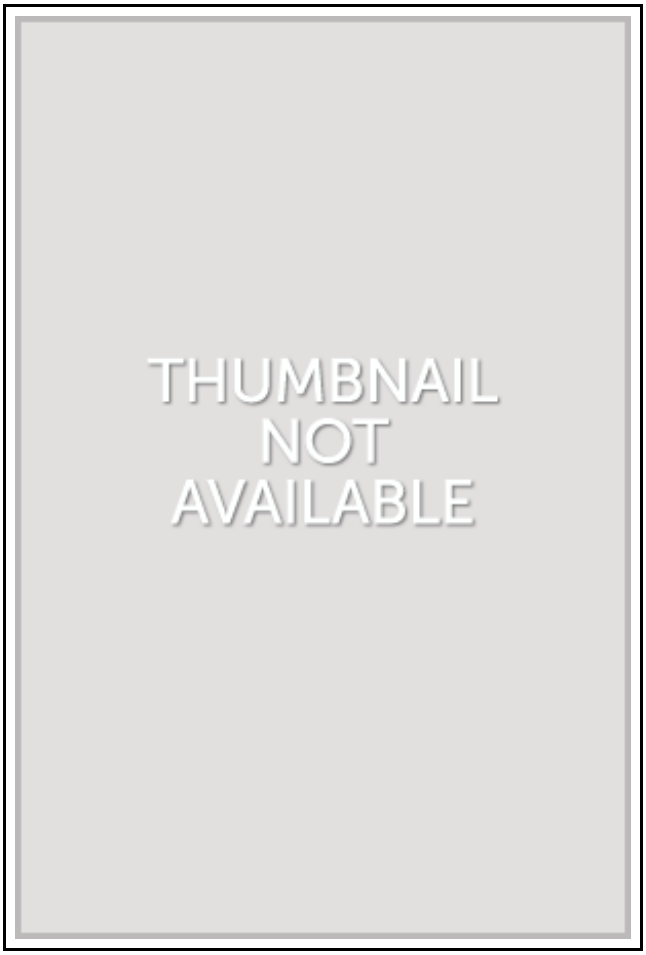

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Original publisher: Hampton, Va. : National Aeronautics and Space Administration, Langley Research Center, 1990 OCLC Number: (OCoLC)67836453 Excerpt: . . . for the least squaresproblems (P) and (pN) whenever one formulates these with pointwise observations of either velocity or acceleration. Example 4. 2 For this example we return to the so-called RPL experiment discussed in some detail in BGRW . The focus of our attention is a cantilevered Euler-Bernoulli beam with a flexible gas hose and thruster nozzle attached to the free end as depicted in Figure 2. 2 of BGRW . The structure is modeled as a uniform cantilevered beam with Kelvin-Voigt internal damping and tip mass with a mass-spring-dashpot assembly attached at the tip. Along with the usual damped Euler-Bernoulli beam equation 0Su 0, 0 z i, we have the force balance equation at the tip 32u 84u E-83u (4. 3) Lmr---CDIoxac3 1--x3l : t Ou t-cH (1 (t)-- (,))-F kH (y (t)-u (t,)) f (t) and the hose assembly state equation (4. 4) rn, (t) cH (y (t)- i (, l)) kH (y (t)-u (L t)) O. Here p, EI, and the usual beam parameters whereas rna, represents the tip mass, cDI are mH is the hose mass, kH is the hose stiffness (the spring or restoring force constant), CH is the hose damping coefficient and f ( ) represents an externally applied force at the tip (firing of the tip mounted thrusters). Boundary conditions for the coupled state equations (4. 2) and...

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