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## Etudes Politiques

By -

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 squares problems ( 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  $0 \leq u \leq 1$ , we have the force balance equation at the tip  $32u \cdot 84u \cdot E \cdot 83u \cdot (4.3) \cdot L \cdot m \cdot \ddot{u} + c \cdot \dot{u} + k \cdot u = F \cdot \cos(\omega t)$  and the hose assembly state equation (4.4..

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