

## Etudes Politiques



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### ***Reviews***

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(Mr. Ladarius Stoltenberg)*

## ETUDES POLITIQUES



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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 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  $0 \leq u \leq l$ , we have the force balance equation at the tip  $32u \ 84u \ E-83u$  ( 4. 3 )  $m \ddot{u}(l, t) + c \dot{u}(l, t) + k(u(l, t) - u_0(t)) = f(t)$  and the hose assembly state equation ( 4. 4 )  $m_h \ddot{u}(l, t) + c_h \dot{u}(l, t) + k_h(u(l, t) - u_0(t)) = 0$ . Here  $p$ ,  $EI$ , and the usual beam parameters whereas  $m$ , represents the tip mass,  $c$  is the tip damping coefficient,  $k$  is the tip stiffness ( the spring or restoring force constant ),  $c_h$  is the hose damping coefficient and  $f(t)$  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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