

## 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  $0 \leq u \leq 1$ , we have the force balance equation at the tip  $32u \leq 84u \leq E-83u$  ( 4. 3 )  $\text{Lmr} \rightarrow \text{CDI} \text{oxac} 3 \text{ 1} \rightarrow \text{x3l} : \text{t Ou t-cH} ( 1 ( t ) \rightarrow ( , ) ) \rightarrow \text{F kH} ( y ( t ) - u ( t , ) ) f ( t )$  and the hose assembly state equation ( 4. 4 )  $\text{rn}, ( t ) \text{cH} ( y ( t ) - i ( , l ) ) \text{kH} ( y ( t ) - u ( L t ) ) O$ . Here  $p$ ,  $EI$ , and the usual beam parameters whereas  $m_a$ , represents the tip mass,  $c_{DI}$  are  $m_H$  is the hose mass,  $k_H$  is the hose stiffness ( the spring or restoring force constant ),  $C_H$  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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