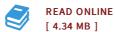




By-

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 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---CDloxac3 1--x3l : t Ou t-cH ( 1 ( t )-- (, ) )-F kH ( y ( t )-u ( t , ) ) f ( t ) and the hose assembly state equation ( 4. 4...





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