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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 32 pages. Original publisher: Cleveland, Ohio : Army Research Laboratory, 2009 OCLC Number: (OCoLC)495785613 Subject: Military helicopters -- Maintenance and repair. Excerpt: . . . operating conditions. The inputs are modeled by forcing functions on the right hand side of equation 1. It is here that gear dynamics become readily apparent. The dynamics of the spiral-bevel and gear-mesh frequencies and their harmonics dominate the transmission response (10). This is most easily illustrated by a data sample from the OH-58 Transmission Test Stand. The test conditions were an input speed of 6060 rpm, torque of 350. 1 N-m, and full mast loading. Figure 3 depicts the response from an accelerometer near the ring gear at the left trunnion mount. The gear-mesh frequency harmonics of both gear stages are identified. 1. 0. 99 0 Spiral-bevel mesh Planetary mesh. 0. 88 0. 0. 77 0 Magnitude. 0. 66 0. 0. 55 0 Normalized. 0. 44 0. 0. 33 0. 0. 22 0. 0. 11 0 0 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 0100000 3000 4000 5000 6000 7000 8000 9000 100 0 1000 2000 Frequency (Hz) Frequency (Hz) Figure 3. Sample data from OH-58 transmission test stand. The data in figure 3 show 22 total gear-mesh harmonics for the OH-58C transmission in the spectrum between 0 and 10, 000 Hz, clearly illustrating the gear-mesh contributions to the overall dynamics of the system. This significantly contributes to the complexity of the modeling problem, since each harmonic represents an individual model input. This leads to another dilemma, specifically, how to determine the amplitudes of the respective forcing functions, since no closed form methodology exists. Similarly, the gear-mesh contributions also result in sideband frequencies,...



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