



Free-Spinning and Tumbling  
Tests of a 1/16-Scale Model of  
the McDonnell XP-85 Airplane

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## Free-Spinning and Tumbling Tests of a 116-Scale Model of the McDonnell XP-85 Airplane

By Walter J. Klinar

Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 42 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The test results showed that with either of the three tail arrangements, the model usually spun in flat attitudes with oscillations about the lateral and longitudinal axes. In general, full reversal of the rudder pedals did not stop the spinning rotation. To make the model satisfactorily meet the spin-recovery requirements it was found that installation of either a very large ventral fin (17.9 square feet, full scale) below the tail or a somewhat smaller ventral fin and rudder (12.4 square feet, total, full-scale area) with a rudder throw of at least -22deg was required. Either a 21.3-foot tail parachute or a 6.4-foot wing-tip parachute (drag coefficient approximately 0.70) appears necessary as an emergency spin-recovery device during demonstration spins. This item ships from La Vergne, TN. Paperback.



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