Flight Testing

Papers Presented at the AIAA SciTech Forum and Exposition 2022

San Diego, California, USA and Online 3 – 7 January 2022

ISBN: 978-1-7138-5385-5

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



a		•			43		•				41 .	• 4	•
Some	tormat	ICCITAC	inheren	t in	the e	-media	Version	may 9	alen ar	mear II	1 thic	nrint	version.
Some	ivi illat	issucs			u	-mcuia	VCI SIUII	11161 7 6	aisu ap	pcai ii	1 (1113	թւաւ	VCI SIUII.

The contents of this work are copyrighted and additional reproduction in whole or in part are expressly prohibited without the prior written permission of the Publisher or copyright holder. The resale of the entire proceeding as received from CURRAN is permitted.

For reprint permission, please contact AIAA's Business Manager, Technical Papers. Contact by phone at 703-264-7500; fax at 703-264-7551 or by mail at 34922 Uwptkug'Xcmg{'Ftkxg."Uwkg'422, Reston, VA 20191, USA.

TABLE OF CONTENTS

TECHNIQUES TECHNIQUES
The Wind Resistance Capability of the Egretta Tail-Sitter VTOL UAV
Development of New Flight Test Techniques for Helicopter Air to Air Refueling Qualification Process
Luís Gustavo L. de Paula, Alexandre C. de Freitas, José Márcio P. Figueira, Roberto G. da Silva, Ronaldo V. Cruz
Empirical Analysis of UAS Performance Under External Wind
Development and Flight Testing of Modified Mission Task Elements for Ultralight Helicopters
FLIGHT TEST TECHNIQUES, FLIGHT MEASUREMENT TECHNOLOGIES, AND NOVEL APPROACHES TO ACQUIRE DATA
Design and Testing of an In-Flight Thrust Measurement System for a Pylon-Mounted Miniature Jet Engine
ATARI – MAGIC CARPET Goes Remote
Author Index