

1. Record Nr.	UNINA9910437898203321
Titolo	Advanced In-Flight Measurement Techniques / / edited by Fritz Boden, Nicholas Lawson, Henk W. Jentink, Jürgen Kompenhans
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	9783642347382 364234738X 9781299336650 1299336655
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (xix, 344 pages) : illustrations (some color)
Collana	Research Topics in Aerospace, , 2194-8259
Altri autori (Persone)	BodenFritz
Disciplina	629.134 629.134/53 629.13453
Soggetti	Aerospace engineering Astronautics Fluid mechanics Physics Thermodynamics Heat engineering Heat transfer Mass transfer Multibody systems Vibration Mechanics, Applied Aerospace Technology and Astronautics Engineering Fluid Dynamics Applied and Technical Physics Engineering Thermodynamics, Heat and Mass Transfer Multibody Systems and Mechanical Vibrations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.

Nota di contenuto

Part I – Introduction -- Part II – Wing Deformation Studies -- Part III – Propeller Deformation Studies -- Part IV – Helicopter Investigations -- Part V – Flow Measurements.

Sommario/riassunto

The book presents a synopsis of the main results achieved during the 3 year EU-project "Advanced Inflight Measurement Techniques (AIM)" which applied advanced image based measurement techniques to industrial flight testing. The book is intended to be not only an overview on the AIM activities but also a guide on the application of advanced optical measurement techniques for future flight testing. Furthermore it is a useful guide for engineers in the field of experimental methods and flight testing who face the challenge of a future requirement for the development of highly accurate non-intrusive in-flight measurement techniques.