

1. Record Nr.	UNINA9910798269903321
Autore	Takahashi Timothy
Titolo	Aircraft performance and sizing . Volume I : fundamentals of aircraft performance / / Timothy Takahashi
Pubbl/distr/stampa	New York, NY : , : Momentum Press, , [2018] ©2018
ISBN	1-60650-684-6
Descrizione fisica	1 online resource (xvi, 230 pages) : illustrations
Collana	Aerospace engineering collection
Disciplina	629.1341
Soggetti	Airplanes - Design and construction Airplanes - Performance
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>1. Introduction -- 1.1 Defining a clean-sheet design -- 1.2 Aircraft purpose, the explicit requirements -- 1.3 Certification, the implied requirements --</p> <p>2. Flight mechanics basics -- 2.1 Reference units -- 2.2 Coordinate frames -- 2.3 Standard atmosphere -- 2.4 How pilots actually fly airplanes --</p> <p>3. Propulsion system design drivers and performance -- 3.1 Gas turbine fundamentals -- 3.2 Calculating thrust and fuel flow -- 3.3 Propulsion system components and design drivers -- 3.4 Example engine performance data --</p> <p>4. Aerodynamic analysis fundamentals: lift and drag -- 4.1 Full configuration drag estimation -- 4.2 Zero-lift drag at incompressible speeds -- 4.3 Zero-lift drag due to compressibility -- 4.4 Drag due to lift at incompressible speeds -- 4.5 Drag due to lift arising from compressibility -- 4.6 "Crud drag," the drag of real versus idealized aerostructures -- 4.7 Maximum lift coefficient/buffet boundary -- 4.8 Angle of attack -- 4.9 Take-off, approach, and landing aerodynamics --</p> <p>5. Kinematic "point-performance" principles -- 5.1 Standard atmosphere revisited -- 5.2 Computing stall speed -- 5.3 Minimum and maximum permissible flight speeds -- 5.4 The energy-maneuverability skymap plot -- 5.5 Inferring lift and drag in an E-M</p>

plot -- 5.6 Aerodynamic efficiency (L/D) and performance efficiency (M (L/D)) -- 5.7 Dimensionalizing drag -- 5.8 Propulsive performance -- 5.9 Specific excess thrust and linear acceleration capability -- 5.10 Specific excess power, rate of climb (R.O.C.), and ceiling -- 5.11 Specific range -- 5.12 Loiter -- 5.13 Induced drag fraction of total drag for level flight limited by aerodynamics and propulsion -- 5.14 Maximum load factor, instantaneous turn rate and stall speed ratio -- 5.15 Combat agility, maximum sustained turn rate -- 6. Mission performance principles -- 6.1 Breguet range equation -- 6.2 Time-step integrating simulations -- 6.3 Creating missions using a mission simulation code -- 6.4 Observations examining the output of a mission simulation code -- 6.5 Creating trade studies using a mission simulation code -- 6.6 Creating payload/range charts using a mission simulation code -- Index.

---

## Sommario/riassunto

This book is a concise practical treatise for the student or experienced professional aircraft designer. This volume comprises key fundamental subjects for aerodynamic performance analysis: the basics of flight mechanics bridging both engineering and piloting perspectives, propulsion system performance attributes, practical drag prediction methods, aircraft "up and away" flight performance and aircraft mission performance. This book may serve as a textbook for an undergraduate aircraft performance course or as a reference for the classically trained practicing engineer.

---

2. Record Nr.	UNINA9910966787903321
Titolo	The African philosophy reader : a text with readings // edited by P.H. Coetzee and A.P.J. Roux
Pubbl/distr/stampa	New York, : Routledge, 2003
ISBN	9781135884185 1135884188 9781138130715 1138130710 9781135884192 1135884196 9781280109621 1280109629 9780203493229 0203493222
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (813 p.)
Altri autori (Persone)	CoetzeeP. H <1949-> (Pieter Hendrik) RouxA. P. J
Disciplina	199/.6
Soggetti	Philosophy, African
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	BOOK COVER; HALF TITLE; TITLE; COPYRIGHT; CONTENTS; PREFACE; PREFACE TO FIRST EDITION; ACKNOWLEDGEMENTS; COPYRIGHT ACKNOWLEDGEMENTS; 1. DISCOURSES ON AFRICA; 2. TRENDS IN AFRICAN PHILOSOPHY; 3. METAPHYSICAL THINKING IN AFRICA; 4. EPISTEMOLOGY AND THE TRADITION IN AFRICA; 5. MORALITY IN AFRICAN THOUGHT; 6. RACE AND GENDER; 7. JUSTICE AND RESTITUTION IN AFRICAN POLITICAL THOUGHT; 8. AFRICA IN THE GLOBAL CONTEXT; INDEX
Sommario/riassunto	Divided into eight sections, each with introductory essays, the selections offer rich and detailed insights into a diverse multinational philosophical landscape. Revealed in this pathbreaking work is the way in which traditional philosophical issues related to ethics, metaphysics,

and epistemology, for instance, take on specific forms in Africa's postcolonial struggles. Much of its moral, political, and social philosophy is concerned with the turbulent processes of embracing modern identities while protecting ancient cultures.

---