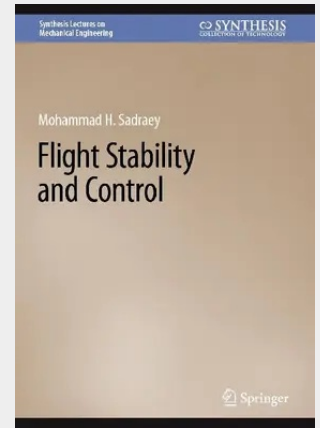


Flight Stability and Control

Aircraft safety is a function of several parameters including flight stability and control. An air vehicle must be stable if it is to remain in flight. Moreover, it must be controllable as well as trimmable. This book delivers the fundamental concepts of stability and control, as well as their associated areas. It explains airworthiness, dynamic and static stability, longitudinal, lateral, and directional control, flight measurement devices and sensors, and control surfaces which are necessary topics to be considered during the aircraft design process. This book is mainly focused on air vehicles' stability features and control capabilities. The aircraft addressed in this book is a rigid-body point mass object. Describing the complete motion of a rigid-body aircraft, this book covers equations of motion with six degrees of freedom (DOF)

Aircraft safety is a function of several parameters including flight stability and control. An air vehicle must be stable if it is to remain in flight. Moreover, it must be controllable as well as trimmable. This book delivers the fundamental concepts of stability and control, as well as their associated areas. It explains airworthiness, dynamic and static stability, longitudinal, lateral, and directional control, flight measurement devices and sensors, and control surfaces which are necessary topics to be considered during the aircraft design process. This book is mainly focused on air vehicles' stability features and control capabilities. The aircraft addressed in this book is a rigid-body point mass object. Describing the complete motion of a rigid-body aircraft, this book covers equations of motion with six degrees of freedom (DOF)



85,59 €

79,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783031187643

Medium: Buch

ISBN: 978-3-031-18764-3

Verlag: Springer

Erscheinungstermin: 03.01.2023

Sprache(n): Englisch

Auflage: 1. Auflage 2022

Serie: Synthesis Lectures on
Mechanical Engineering

Produktform: Gebunden

Gewicht: 599 g

Seiten: 236

Format (B x H): 173 x 246 mm

