

Introduction Aircraft Flight Mechanics Performance

Embark on an Unforgettable Airborne Adventure with "Introduction to Aircraft Flight Mechanics and Performance"

Prepare to have your spirit soar and your imagination take flight with "Introduction to Aircraft Flight Mechanics and Performance," a book that transcends the ordinary and ushers readers into a realm of pure wonder. While its title might suggest a purely technical read, this extraordinary work is, in fact, a testament to the boundless possibilities of human ingenuity and the breathtaking beauty of achieving the impossible.

The true magic of this book lies in its ability to paint vivid, almost tangible, pictures of flight. The authors have masterfully crafted an "imaginative setting" that is not confined to a physical location, but rather exists within the very principles of aerodynamics and engineering. As you delve into its pages, you'll find yourself not just reading about concepts, but experiencing them. Imagine the exhilarating sensation of lift, the powerful thrust that propels you forward, and the graceful dance of control surfaces. The "setting" here is the sky itself, rendered with such evocative detail that you'll feel the wind beneath your wings and the vast expanse of the heavens unfolding before you.

What truly sets this book apart is its surprising "emotional depth." Beyond the equations and diagrams, there's a profound narrative of human aspiration, perseverance, and the sheer joy of discovery. You'll connect with the triumphs and challenges faced by pioneers of flight, their unwavering dedication to understanding the mechanics of the air. Each chapter is a testament to the human spirit's yearning to conquer gravity and explore the unknown. This emotional resonance makes the technical aspects not just understandable, but deeply moving.

The "universal appeal" of "Introduction to Aircraft Flight Mechanics and Performance" is undeniable, making it a treasure for readers of all ages and backgrounds. Young adults will be captivated by the thrilling potential of flight, igniting a passion for STEM fields and inspiring dreams of reaching for the stars. Literature enthusiasts will appreciate the elegant prose and the intellectual journey it offers, a fascinating exploration of scientific principles woven into a compelling narrative. Book clubs will find ample material for rich discussion, delving into the historical context, the scientific marvels, and the enduring human spirit that this book celebrates.

Here's why you simply must experience this literary marvel:

Immersive Descriptions: The authors' ability to translate complex scientific concepts into accessible and awe-inspiring imagery is unparalleled.

Inspiring Narrative Arc: Follow the journey of flight from theoretical musings to breathtaking reality, a story of relentless innovation.

Intellectual Stimulation: Engage your mind with fascinating insights into the forces that govern the skies, explained with clarity and passion.

Emotional Connection: Discover the profound human stories behind the advancements in aviation, fostering a deep appreciation for this incredible achievement.

Timeless Relevance: The principles explored are fundamental to understanding the world around us and will continue to inspire for generations to come.

This is more than just a book; it's an invitation to embark on a "magical journey." It's a chance to rediscover the wonder of flight and to understand the intricate dance of forces that allows us to touch the clouds. Don't just read about flight; *feel* it. Let "Introduction to Aircraft Flight Mechanics and Performance" awaken your sense of adventure and remind you of what is possible when human curiosity meets the boundless expanse of the sky.

We wholeheartedly recommend "Introduction to Aircraft Flight Mechanics and Performance" to every reader. It is a book that will stay with you long after you've turned the final page, a "timeless classic worth experiencing to inspire readers." It captures hearts worldwide because it speaks to our innate desire to explore, to understand, and to achieve the seemingly impossible. This heartfelt recommendation is a testament to its lasting impact and its ability to ignite passion and wonder in all who dare to open its pages.

Embark on this extraordinary adventure and let your spirit take flight. This book is a must-read.

Basic Flight MechanicsFundamentals of Airplane Flight MechanicsIntroduction to Aircraft Flight MechanicsIntroduction to Aircraft Flight MechanicsMechanics of FlightAerodynamics, Aeronautics, and Flight MechanicsThe Dynamics of Flight, The EquationsIntroduction to Aircraft Flight DynamicsFlight Mechanics Modeling and AnalysisAirplane Flight Dynamics and Automatic Flight ControlsPerformance, Stability, Dynamics, and Control of AirplanesFlight DynamicsFlight mechanics and flight control for a multibody aircraftFlight Mechanics of High-performance AircraftAircraft FlightFlight Dynamics PrinciplesFlight MechanicsMechanics of FlightAircraft Flight Dynamics and ControlAerodynamics Aeronautics and Flight Mechanics Ashish Tewari David G. Hull Thomas R. Yehout Warren F. Phillips Barnes W. McCormick Jean-Luc Boiffier Louis V. Schmidt Jitendra R. Raol Jan Roskam Bandu N. Pamadi Robert F. Stengel Köthe, Alexander Nguyen X. Vinh R. H. Barnard Michael V. Cook Angelo Miele Alfred Cotterill Kermode Wayne Durham Cezar Dalca Basic Flight Mechanics Fundamentals of Airplane Flight Mechanics Introduction to Aircraft Flight Mechanics Introduction to Aircraft Flight Mechanics Mechanics of Flight Aerodynamics, Aeronautics, and

Flight Mechanics The Dynamics of Flight, The Equations Introduction to Aircraft Flight Dynamics Flight Mechanics Modeling and Analysis Airplane Flight Dynamics and Automatic Flight Controls Performance, Stability, Dynamics, and Control of Airplanes Flight Dynamics Flight mechanics and flight control for a multibody aircraft Flight Mechanics of High-performance Aircraft Aircraft Flight Flight Dynamics Principles Flight Mechanics Mechanics of Flight Aircraft Flight Dynamics and Control Aerodynamics Aeronautics and Flight Mechanics *Ashish Tewari David G. Hull Thomas R. Yechout Warren F. Phillips Barnes W. McCormick Jean-Luc Boiffier Louis V. Schmidt Jitendra R. Raol Jan Roskam Bandu N. Pamadi Robert F. Stengel Köthe, Alexander Nguyen X. Vinh R. H. Barnard Michael V. Cook Angelo Miele Alfred Cotterill Kermode Wayne Durham Cezar Dalca*

this book presents flight mechanics of aircraft spacecraft and rockets to technical and non technical readers in simple terms and based purely on physical principles adapting an accessible and lucid writing style the book retains the scientific authority and conceptual substance of an engineering textbook without requiring a background in physics or engineering mathematics professor tewari explains relevant physical principles of flight by straightforward examples and meticulous diagrams and figures important aspects of both atmospheric and space flight mechanics are covered including performance stability and control aeroelasticity orbital mechanics and altitude control the book describes airplanes gliders rotary wing and flapping wing flight vehicles rockets and spacecraft and visualizes the essential principles using detailed illustration it is an ideal resource for managers and technicians in the aerospace industry without engineering degrees pilots and anyone interested in the mechanics of flight

flight mechanics is the application of newton s laws to the study of vehicle trajectories performance stability and aerodynamic control this text is concerned with the derivation of analytical solutions of airplane flight mechanics problems associated with flight in a vertical plane algorithms are presented for calculating lift drag pitching moment and stability derivatives flight mechanics is a discipline as such it has equations of motion acceptable approximations and solution techniques for the approximate equations of motion once an analytical solution has been obtained numbers are calculated in order to compare the answer with the assumptions used to derive it and to acquaint students with the sizes of the numbers a subsonic business jet is used for these calculations

based on a 15 year successful approach to teaching aircraft flight mechanics at the us air force academy this text explains the concepts and derivations of equations for aircraft flight mechanics it covers aircraft performance static stability aircraft dynamics stability and feedback control

this comprehensive volume addresses the mechanics of flight through a combination of theory and applications topics are presented in a logical order and coverage within each is extensive including a detailed discussion on the quaternion formulation for six degree of freedom flight

a new edition of the most effective text reference in the field aerodynamics aeronautics and flight mechanics second edition barnes w mccormick pennsylvania state university 57506 2 when the first edition of

aerodynamics aeronautics and flight mechanics was published it quickly became one of the most important teaching and reference tools in the field not only did generations of students learn from it they continue to use it on the job the first edition remains one of the most well thumbed guides you ll find in an airplane company now this classic text reference is available in a bold new edition all new material and the interweaving of the computer throughout make the second edition even more practical and current than before a new edition as complete and applied as the first both analytical and applied in nature aerodynamics aeronautics and flight mechanics presents all necessary derivations to understand basic principles and then applies this material to specific examples you ll find complete coverage of the full range of topics from aerodynamics to propulsion to performance to stability and control plus the new second edition boasts the same careful integration of concepts that was an acclaimed feature of the previous edition for example chapters 9 10 and 11 give a fully integrated presentation of static dynamic and automatic stability and control these three chapters form the basis of a complete course on stability and control new features you ll find in the second edition a new chapter on helicopter and v stol aircraft introduces a phase of aerodynamics not covered in most current texts even more material than the previous edition including coverage of stealth airplanes and delta wings extensive use of the computer throughout each chapter now contains several computer exercises a computer disk with programs written by the author is available

the dynamics of flight the equations jean luc boiffier supaÉro and onera cert france the study of aircraft flight is based upon the model formed by the flight dynamics equations which are comprehensively evolved in this book these equations and the associated hypotheses are the fundamental prerequisite of every study of flight dynamics in this work the equations are adapted to the study of the atmospheric or spatial flight of a rigid airplane for which a series of successive simplifications are made ranging from the flat and fixed earth hypotheses to those of longitudinal decoupling and linearised flight several representations of the equations are developed with a precise formulation of the atmospheric perturbation influence wind and turbulence the definition of the equilibrium and pseudo equilibrium notions is accompanied by an analytical and numerical general method for equilibrium research next the linearisation and the decoupling operation fundamental for the dynamic and analytical process of the equations is developed major features include general equations of flight dynamics with successive simplifications and in several forms calculation details appear in the appendix precise formulation of atmospheric perturbation on the equations analytical and numerical methods for equilibrium research and linearisation a compendium of rigorous definitions and notations of the numerous flight dynamics parameters onboard measures equations developments designed to solve practical difficulties in a thorough and simple way with its inclusion of both the theoretical and applied aspects of flight dynamics equations this book serves as an essential tool for engineers researchers and students working in the fields of aeronautics flight dynamicists automatic control systems specialists aerodynamicists and specialists in structures

the design development analysis and evaluation of new aircraft technologies such as fly by wire unmanned aerial vehicles and micro air vehicles necessitate a better understanding of flight mechanics on the part of the aircraft systems analyst a text that provides unified coverage of aircraft flight mechanics and systems concept

will go a lon

this book provides a comprehensive and integrated exposure to airplane performance stability dynamics and flight control the text supports a two semester course for senior undergraduate or first year graduate students in aerospace engineering basic aerodynamics dynamics and linear control systems are presented to help the reader grasp the main subject matter in this text the airplane is assumed to be a rigid body elastic deformations and their effects on airplane motion are not considered numerous solved examples illustrate theory and design methods several exercise problems with answers are included in each chapter to help the reader acquire problem solving skills in addition matlab tools are used for the control design professors to receive your solutions manual e mail your request and full address to custserv aiaa org

flight dynamics takes a new approach to the science and mathematics of aircraft flight unifying principles of aeronautics with contemporary systems analysis while presenting traditional material that is critical to understanding aircraft motions it does so in the context of modern computational tools and multivariable methods robert stengel devotes particular attention to models and techniques that are appropriate for analysis simulation evaluation of flying qualities and control system design he establishes bridges to classical analysis and results and explores new territory that was treated only inferentially in earlier books this book combines a highly accessible style of presentation with contents that will appeal to graduate students and to professionals already familiar with basic flight dynamics dynamic analysis has changed dramatically in recent decades with the introduction of powerful personal computers and scientific programming languages analysis programs have become so pervasive that it can be assumed that all students and practicing engineers working on aircraft flight dynamics have access to them therefore this book presents the principles derivations and equations of flight dynamics with frequent reference to matlab functions and examples by using common notation and not assuming a strong background in aeronautics flight dynamics will engage a wide variety of readers introductions to aerodynamics propulsion structures flying qualities flight control and the atmospheric and gravitational environment accompany the development of the aircraft s dynamic equations

aircraft operating as so called high altitude platform systems haps have been considered as a complementary technology to satellites since several years these aircraft can be used for similar communication and monitoring tasks while operating at a fraction of the cost such concepts have been successfully tested those include the aerovironment helios and the airbus zephyr with an endurance of nearly 624 hours 26 days all these haps aircraft have a high aspect ratio wing using lightweight construction in gusty atmosphere this results in high bending moments and high structural loads which can lead to overloads aircraft crashes for example from google s solara 50 or facebook s aquila give proof of that fact especially in the troposphere where the active weather takes place gust loads occur which can lead to the destruction of the structure the airbus zephyr the only haps aircraft without flight accidents provides only a very small payload thus it does not fully comply with the requirements for future haps aircraft to overcome the shortcomings of such single wing aircraft so called multibody aircraft are considered to be an alternative the concept assumes multiple aircraft connected to each other at their wingtips it goes back to the german engineer dr vogt in the united

states shortly after the end of world war ii he experimented with the coupling of manned aircraft this resulted in a high aspect ratio wing for the aircraft formation the range of the formation could be increased correspondingly the engineer geoffrey s sommer took up vogg s idea and patented an aircraft configuration consisting of several unmanned aerial vehicles coupled at their wingtips however the patent does not provide any insight into the flight performance the flight mechanical modeling or the control of such an aircraft single publications exist that deal with the performance of coupled aircraft a profound complete analysis however is missing so far this is where the present work starts for the first time a flying vehicle based on the concept of the multibody aircraft will be analyzed in terms of flight mechanics and flight control in a performance analysis the aircraft concept is analyzed in detail and the benefits in terms of bending moments and flight performance are clearly highlighted limits for operation in flight are shown considering aerodynamic optimal points the joints at the wingtips allow a roll and pitch motion of the individual aircraft this results in additional degrees of freedom for the design through the implementation of different relative pitch and bank angles for example using individual pitch angles for individual aircraft further decreases the induced drag and increases flight performance because the lift is distributed symmetrically but not homogenously along the wingspan a lateral trim of the individual aircraft in formation flight becomes necessary the thesis presents a new method to implement this trim by moving the battery mass along half the wingspan which avoids additional parasite drag further a complete flight dynamics model is provided and analyzed for aircraft that are mechanically connected at their wingtips to study this model in detail a hypothetical torsional and bending spring between the aircraft is introduced if the spring constants are very high the flight dynamics model has properties similar to those of an elastic aircraft rigid body and formation eigenmotions can be clearly distinguished if the spring constants are reduced towards zero which represents the case of the multibody aircraft classical flight mechanics eigenmotions and modes resulting from the additional degrees of freedom are coupled this affects the eigenstructure of the aircraft hence normal motions with respect to the inertial space as known from a rigid aircraft cannot be observed anymore the plant also reveals unstable behavior using the non linear flight dynamics model flight controllers are designed to stabilize the plant and provide the aircraft with an eigenstructure similar to conventional aircraft different controller design methods are used the flight controller shall further maintain a determined shape of the flight formation it shall control flight bank and pitch angles and it shall suppress disturbances flight control theories in the time domain eigenstructure assignment and in the frequency domain h infinity loop shaping are considered the resulting inner control loops yield a multibody aircraft behavior that is similar to the one of a rigid aircraft for the outer control loops classical autopilot concepts are applied overall the flight trajectory of the multibody aircraft above ground is controlled and thus an actual operation as haps is possible in the last step the flight controller is successfully validated in non linear simulations with complete flight dynamics flugzeuge in der form von sogenannten höhenplattformen engl high altitude platform systems haps werden seit einigen jahren als kostengünstige ergänzung zu teuren satelliten betrachtet diese flugzeuge können für ähnliche kommunikations und überwachungsaufgaben eingesetzt werden zu den gegenwärtigen konzepten solcher fluggeräte die bereits erfolgreich im flugversuch eingesetzt wurden zählen der helios von aerovironment und der airbus zephyr der eine flugdauer von fast 624 stunden 26 tagen erreicht hat alle diese haps flugzeuge

besitzen einen flügel langer streckung der in leichtbauweise konstruiert ist hieraus resultieren in böiger atmosphäre hohe biegemomente und starke strukturelle belastungen die zu überbelastungen führen können flugunfälle beispielsweise von googles solara 50 oder facebooks aquila belegen dies insbesondere in der troposphäre in der das aktive wetter stattfindet treten böenlasten auf die die struktur zerstören können der airbus zephyr der bisher als einziges haps flugzeug frei von flugunfällen ist besitzt nur eine sehr geringe nutzlast daher kann er die anforderungen an zukünftige haps flugzeuge nicht vollständig erfüllen um die schwachstellen solcher ein flügel konzepte zu überwinden wird in dieser arbeit ein alternatives flugzeugkonzept betrachtet das als mehrkörperflugzeug bezeichnet wird das konzept geht von mehreren an den flügel spitzen miteinander verbundenen flugzeugen aus und beruht auf ideen des deutschen ingenieurs dr vogt dieser hatte in den usa kurz nach ende des zweiten weltkrieges bemannte flugzeuge aneinanderkoppeln lassen hierdurch ergab sich ein flugzeugverbund mit einem flügel langer streckung damit konnte die reichweite des verbundes gesteigert werden geoffrey s sommer griff die idee von vogt auf und lies sich eine flugzeugkonfiguration patentieren die aus mehreren unbemannten flugzeugen besteht die an den enden der tragflächen miteinander gekoppelt sind die patentschrift gibt jedoch keinen einblick in die flugleistungen die flugmechanische modellierung oder die regelung eines solchen fluggerätes vereinzelt existieren veröffentlichtungen die sich mit den flugleistungen von gekoppelten luftfahrzeugen beschäftigen eine tiefgreifende vollständige flugmechanische analyse fehlt jedoch bisher hier setzt die vorliegende arbeit an ein fluggerät basierend auf dem konzept des mehrkörperflug zeugs wird erstmalig hinsichtlich der flugmechanik und flugregelung untersucht in einer flugleistungsbetrachtung wird das flugzeugkonzept genau analysiert und die vorteile hinsichtlich der biegemomente und der flugleistungen klar herausgestellt die grenzen des eingesatzes im flugbetrieb werden mithilfe aerodynamischer optimalpunkte aufgezeigt über die lager an den flügel spitzen die eine relative roll und nickbewegung der flugzeuge untereinander ermöglichen ergeben sich durch die einstellung unterschiedlicher längslage und hängewinkel zusätzliche freiheitsgrade im entwurf die verwendung unterschiedlicher nicklagewinkel der einzelnen flugzeuge reduziert beispielsweise den induzierten widerstand weiter und steigert die flugleistung durch die symmetrische entlang der spannweite jedoch nicht homogene auftriebsverteilung ist auch eine laterale trimmung der einzelnen flugzeuge in der formation notwendig hier stellt die arbeit eine neuartige möglichkeit vor um diese trimmung ohne zusätzlichen parasitären widerstand mittels verschiebung der batteriemasse entlang der halbspannweite umzusetzen weiterhin wird ein vollständiges flugdynamisches modell für über mechanische lager verbundene luftfahrzeuge aufgestellt und analysiert für diese analyse wird eine hypothetische torsions und biegefeder zwischen den flugzeugen modelliert sind die federsteifigkeiten hinreichend hoch besitzt das flugdynamische modell eigenschaften die einem elastischen flugzeug entsprechen starrkörper und elastische eigenbewegungsformen sind in diesem fall klar separiert bei immer weiterer reduzierung bis auf eine federsteifigkeit von null kommt es zu kopplungen zwischen den klassischen flugmechanischen eigenbewegungsformen und den moden aus den zusätzlichen freiheitsgraden dies stellt den auslegungsfall für das mehrkörperflugzeug dar hierbei verändert sich die eigenstruktur engl eigenstructure des flugzeugs und normale bei einem starren flugzeug beobachtbare bewegungen gegenüber dem inertialen raum sind nicht mehr erkennbar zusätzlich zeigt die strecke instabiles verhalten basierend auf dem nichtlinearen flugdynamischen modell werden mit verschiedenen methoden regler entworfen die die regelstrecke

stabilisieren und dem Flugzeug eine Streckenstruktur zuweisen die derjenigen klassischer Flugzeuge ähnelt zudem soll durch die Regler eine vorgegebene Form des Flugzeugverbundes beibehalten werden die Fahrt der Längs- und Rolllagewinkel sollen geregelt und Störungen unterdrückt werden als Auslegungsverfahren werden Theorien der Zustandsregelungen im Zeitbereich Eigenstrukturvorgabe und Frequenzbereich H infinity Loop Shaping verwendet hierdurch wird durch die inneren Regelschleifen ein Verhalten des Mehrkörperflugzeugs erzielt das dem eines starren Flugzeugs entspricht für die äußeren Regelschleifen werden anschließend klassische Konzepte von Autopiloten verwendet im Ergebnis ist eine Regelung des Flugweges über Grund des Mehrkörperflugzeugs und somit ein tatsächlicher Betrieb als Haps möglich die Funktionalität des Reglers wird abschließend in nichtlinearen Simulationen mit vollständiger Flugdynamik verifiziert

This book is intended to provide a description on the principles of aircraft flight in physical rather than mathematical terms. The authors have included some of the more important practical aspects of aircraft flight plus examples of innovations descriptions of which are generally only found scattered in assorted technical journals. Two simple formulae as a means of defining important terms such as lift coefficient and Reynolds number which are essential to the understanding of aeronautics important or interesting they have also restricted coverage to the aerodynamics and mechanics of flight with only a brief consideration of other aspects such as structural influences interested in aircraft or contemplating a career in aeronautics students of aeronautical engineering should find it helpful as introductory and background reading it should also be useful to employees in the industry such as flight crew and ground staff physical science and is at least vaguely familiar with concepts such as energy and momentum

The study of flight dynamics requires a thorough understanding of the theory of the stability and control of aircraft an appreciation of flight control systems and a comprehensive grounding in the theory of automatic control flight dynamics principles provides all three in an accessible and student focussed text written for those coming to the subject for the first time the book is suitable as a complete first course text it provides a secure foundation from which to move on to more advanced topics such as non linear flight dynamics simulation and advanced flight control and is ideal for those on course including flight mechanics aircraft handling qualities aircraft stability and control enhances by detailed worked examples case studies and aircraft operating condition software this complete course text by a renowned flight dynamicist is widely used on aircraft engineering courses suitable as a complete first course text it provides a secure foundation from which to move on to more advanced topics such as non linear flight dynamics simulation and advanced flight control end of chapter exercises detailed worked examples and case studies aid understanding and relate concepts to real world applications covers key contemporary topics including all aspects of optimization emissions regulation and automatic flight control and UAVs accompanying Mathcad software source code for performance model generation and optimization

Classic text analyzes trajectories of aircraft missiles satellites and spaceships in terms of gravitational forces aerodynamic forces and thrust topics include general principles of kinematics dynamics aerodynamics propulsion quasi steady and non steady flight and applications 1962 edition

lærebogsagtig beskrivelse af forhold og teknikken i f m flyvning herunder overlyds og rumflyvning

aircraft flight dynamics and control addresses airplane flight dynamics and control in a largely classical manner but with references to modern treatment throughout classical feedback control methods are illustrated with relevant examples and current trends in control are presented by introductions to dynamic inversion and control allocation this book covers the physical and mathematical fundamentals of aircraft flight dynamics as well as more advanced theory enabling a better insight into nonlinear dynamics this leads to a useful introduction to automatic flight control and stability augmentation systems with discussion of the theory behind their design and the limitations of the systems the author provides a rigorous development of theory and derivations and illustrates the equations of motion in both scalar and matrix notation key features classical development and modern treatment of flight dynamics and control detailed and rigorous exposition and examples with illustrations presentation of important trends in modern flight control systems accessible introduction to control allocation based on the author s seminal work in the field development of sensitivity analysis to determine the influential states in an airplane s response modes end of chapter problems with solutions available on an accompanying website written by an author with experience as an engineering test pilot as well as a university professor aircraft flight dynamics and control provides the reader with a systematic development of the insights and tools necessary for further work in related fields of flight dynamics and control it is an ideal course textbook and is also a valuable reference for many of the necessary basic formulations of the math and science underlying flight dynamics and control

aeronautics is defined as the science that treats of the operation of aircraft also the art or science of operating aircraft basically with aeronautics one is concerned with predicting and controlling the forces and moments on an aircraft that is traveling through the atmosphere a single comprehensive in depth treatment of both basic and applied modern aerodynamics the fluid mechanics and aerodynamics of incompressible and compressible flows with particular attention to the prediction of lift and drag characteristics of airfoils and wings and complete airplane configurations designed for courses in aerodynamics aeronautics and flight mechanics this text examines the aerodynamics propulsion performance stability and control of an aircraft this book captures some of the new technologies and methods that are currently being developed to enable sustainable air transport and space flight it clearly illustrates the multi disciplinary character of aerospace engineering and the fact that the challenges of air transportation and space missions continue to call for the most innovative solutions and daring concepts

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