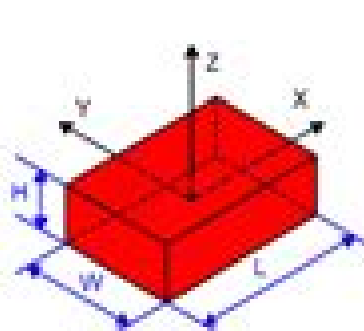


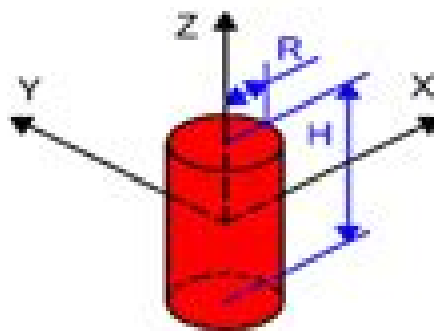
Modeling of Quadrotor (1/3)

Assumption:

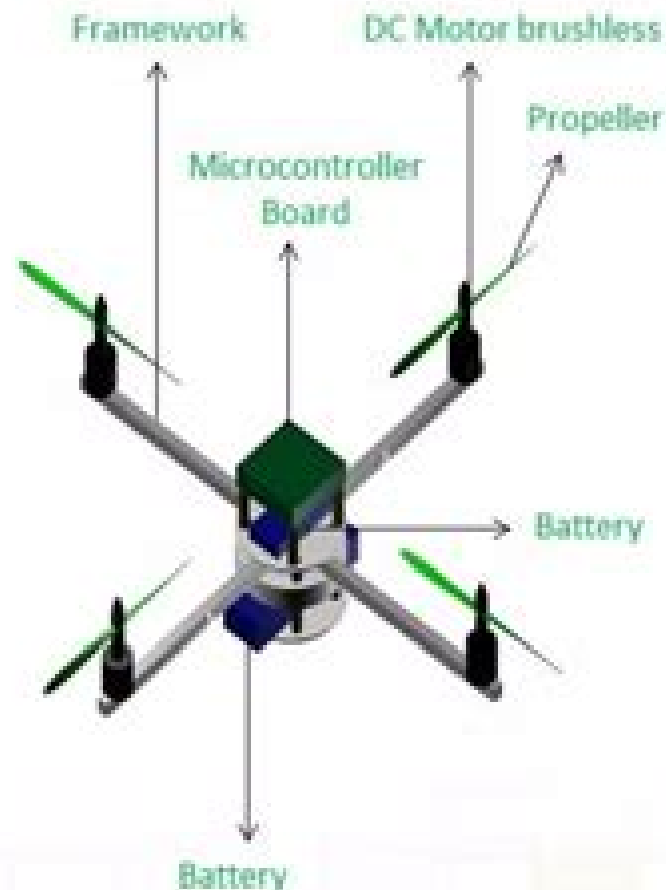
- Framework, microcontroller board, and battery as **cube**.
- Propeller as **rectangle**.
- DC motor brushless as solid **cylinder**.



Cube



Solid cylinder



Quadrotor Modeling And Control

**Uma Shanker Tiwary, Santanu
Chaudhury**



Quadrotor Modeling And Control:

Design, Modeling and Control of Aerial Robots for Physical Interaction and Manipulation Burak Yüksel ,2017-06-10 Aerial robots meaning robots with flying capabilities are essentially robotic platforms which are autonomously controlled via some sophisticated control engineering tools Similar to aerial vehicles they can overcome the gravitational forces thanks to their design and or actuation type What makes them different from the conventional aerial vehicles is the level of their autonomy Reducing the complexity for piloting of such robots vehicles provide the human operator more freedom and comfort With their increasing autonomy they can perform many complicated tasks by their own such as surveillance monitoring or inspection leaving the human operator the most high level decisions to be made if necessary In this way they can be operated in hazardous and challenging environments which might possess high risks to the human health Thanks to their wide range of usage the ongoing researches on aerial robots is expected to have an increasing impact on the human life Aerial Physical Interaction APhI is a case in which the aerial robot exerts meaningful forces and torques wrench to its environment while preserving its stable flight In this case the robot does not try avoiding every obstacle in its environment but prepare itself for embracing the effect of a physical interaction furthermore turn this interaction into some meaningful robotic tasks Aerial manipulation can be considered as a subset of APhI where the flying robot is designed and controlled in purpose of manipulating its environment A clear motivation of using aerial robots for physical interaction is to benefit their great workspace and agility Moreover developing robots that can perform not only APhI but also aerial manipulation can bring the great workspace of the flying robots together with the vast dexterity of the manipulating arms This thesis work is addressing the design modeling and control problem of these aerial robots for the purpose of physical interaction and manipulation Using the nonlinear mathematical models of the robots at hand in this thesis several different control methods IDA PBC Exact Linearization Differential Flatness Based Control for APhI and aerial manipulation tasks have been developed and proposed Furthermore novel design tools e g new rigid elastic manipulating arms hardware software to be used together with miniature aerial robots are presented within this thesis which contributes to the robotics society not only in terms of concrete theory but also practical implementation and experimental robotics

Modeling and Control Simulation for Autonomous Quadrotor Idris Eko Putro,2011-03 The use of Quadrotor UAVs has been widely well known It has capability to hover vertical take off and landing VTOL with having less complexity in vehicle dynamics compared with small helicopter It is basically an unstable system and exhibits nonlinear behavior This book describes the development of nonlinear model of quadrotor dynamics derived from Newton Euler formulation and presented under Matlab Simulink environment The Model is equipped by Stability Augmentation System SAS to maintain the quadrotor level flight attitude stability The autonomous mission for this vehicle is fixed for trajectory following LQR Optimal control was chosen to accomplish this mission

Autonomous Flying Robots Kenzo Nonami, Farid Kendoul, Satoshi Suzuki, Wei Wang, Daisuke Nakazawa, 2010-09-15 The

advance in robotics has boosted the application of autonomous vehicles to perform tedious and risky tasks or to be cost effective substitutes for their man counterparts Based on their working environment a rough classification of the autonomous vehicles would include unmanned aerial vehicles UAVs manned ground vehicles UGVs autonomous underwater vehicles AUVs and autonomous surface vehicles ASVs UAVs UGVs AUVs and ASVs are called UVs unmanned vehicles nowadays In recent decades the development of manned autonomous vehicles have been of great interest and different kinds of autonomous vehicles have been studied and developed all over the world In particular UAVs have many applications in emergency situations humans often cannot come close to a dangerous natural disaster such as an earthquake a flood an active volcano or a nuclear disaster Since the development of the first UAVs research efforts have been focused on military applications Recently however demand has arisen for UAVs such as aero robots and flying robots that can be used in emergency situations and in industrial applications Among the wide variety of UAVs that have been developed small scale HUAVs helicopter based UAVs have the ability to take off and land vertically as well as the ability to cruise in flight but their most important capability is hovering Hovering at a point enables us to make more effective observations of a target Furthermore small scale HUAVs offer the advantages of low cost and easy operation

Modeling and Control of a Quadrotor in a Wind Field Nguyen Khoi Tran, 2016 In recent years there has been a surge of interest in the use of small unmanned air vehicles UAVs for various civilian and military applications Many of the proposed applications are outdoor and may include environments with high wind The relatively small size of quadrotors means that wind gusts can destabilize the quadrotor if the on board flight controller is not equipped to deal with wind effects This work investigates the ability of a quadrotor to maneuver in a wind field and develops a method to cope with wind disturbances A dynamic model of a quadrotor is presented to model its motion The quadrotor model includes a wind effect model to quantify the effect of wind on the dynamics of a quadrotor A proportional integral derivative PID controller is shown as a baseline controller typically used on quadrotors A LQR controller is then shown as an alternative to a PID controller These two controllers are compared in a simulation environment using the wind effect model and simulated wind disturbances Both controllers are found to have similar performance in a wind field though the LQR controller is found to be easier to tune These experiments were then repeated using the AscTec Pelican quadrotor platform in an indoor environment A feedforward controller was developed which uses the wind effect model and a custom onboard wind sensor to generate control inputs that oppose the disturbance forces and moments In simulation the feedforward controller was effective in improving control performance while experimentally the feedforward control was not effective due to wind sensing errors

Methods and Applications for Modeling and Simulation of Complex Systems Gary Tan, Axel Lehmann, Yong Meng Teo, Wentong Cai, 2019-10-21 This volume constitutes the proceedings of the 19th Asia Simulation Conference AsiaSim 2019 held in Singapore Singapore in October 2019 The 19 revised full papers and 5 short papers presented in this volume were carefully reviewed and selected from 36 submissions

The papers are organized in topical sections on simulation and modeling methodology numerical and Monte Carlo simulation simulation applications blockchain deep learning and cloud simulation and visualization simulation applications short papers

Modeling, Design and Simulation of Systems Mohamed Sultan Mohamed Ali, Herman Wahid, Nurul Adilla Mohd Subha, Shafishuhaza Sahlan, Mohd Amri Md. Yunus, Ahmad Ridhwan Wahap, 2017-08-24 This two volume set CCIS 751 and CCIS 752 constitutes the proceedings of the 17th Asia Simulation Conference AsiaSim 2017 held in Malacca Malaysia in August September 2017 The 124 revised full papers presented in this two volume set were carefully reviewed and selected from 267 submissions The papers contained in these proceedings address challenging issues in modeling and simulation in various fields such as embedded systems symbiotic simulation agent based simulation parallel and distributed simulation high performance computing biomedical engineering big data energy society and economics medical processes simulation language and software visualization virtual reality modeling and Simulation for IoT machine learning as well as the fundamentals and applications of computing *Methods and Applications for Modeling and Simulation of Complex Systems* Seiki Saito, Satoshi Tanaka, Liang Li, Satoshi Takatori, Yuichi Tamura, 2024-08-22 This book constitutes the refereed proceedings of the 23rd Asia Simulation Conference on Methods and Applications for Modeling and Simulation of Complex Systems AsiaSim 2024 held in Kobe Japan during September 17 20 2024 The 28 full papers presented here were carefully selected and reviewed from 120 submissions These papers have been categorized into the following topical sections Methods for Simulation and Modeling Simulation for Science Industry and Society Interdisciplinary Simulation and Machine Learning Networks and Complex Systems Modeling Simulation and Visualization of Digital Twin Intelligent Human Computer Interaction Uma Shanker Tiwary, Santanu Chaudhury, 2020-04-11 This volume constitutes the proceedings of the 11th International Conference on Intelligent Human Computer Interaction IHCI 2019 held in Allahabad India in December 2019 The 25 full papers presented in this volume were carefully reviewed and selected from 73 submissions The papers are grouped in the following topics EEG and other biological signal based interactions natural language speech and dialogue processing vision based interactions assistive living and rehabilitation and applications of HCI *Innovative Simulation Systems* Aleksander Nawrat, Karol Jędrasiak, 2015-07-20 This monograph provides comprehensive guidelines on the current and future trends of innovative simulation systems In particular their important components such as augmented reality and unmanned vehicles are presented The book consists of three parts Each part presents good practices new methods concepts of systems and new algorithms Presented challenges and solutions are the results of research and conducted by the contributing authors The book describes and evaluates the current state of knowledge in the field of innovative simulation systems Throughout the chapters there are presented current issues and concepts of systems technology equipment tools research challenges and current past and future applications of simulation systems The book is addressed to a wide audience academic staff representatives of research institutions employees of companies and government agencies as well as students

and graduates of technical universities in the country and abroad The book can be a valuable source of information for constructors and developers of innovative simulation systems and their components Scientists and researchers involved in mechanics control algorithms image processing computer vision or data fusion can find many valuable suggestions and solutions

Unmanned Aerial Vehicles: Breakthroughs in Research and Practice Management Association, Information Resources, 2019-05-03 First used in military applications unmanned aerial vehicles are becoming an integral aspect of modern society and are expanding into the commercial scientific recreational agricultural and surveillance sectors With the increasing use of these drones by government officials business professionals and civilians more research is needed to understand their complexity both in design and function Unmanned Aerial Vehicles Breakthroughs in Research and Practice is a critical source of academic knowledge on the design construction and maintenance of drones as well as their applications across all aspects of society Highlighting a range of pertinent topics such as intelligent systems artificial intelligence and situation awareness this publication is an ideal reference source for military consultants military personnel business professionals operation managers surveillance companies agriculturalists policymakers government officials law enforcement IT professionals academicians researchers and graduate level students

Innovation and Technological Advances for Sustainability Salem Al-Naemi, Rachid Benlamri, Rehan Sadiq, Aitazaz Farooque, Michael Phillips, 2024-11-13 The proceedings publication of the International Conference on Innovation and Technological Advances for Sustainability ITAS 2023 captures the essence of a dynamic international forum dedicated to advancing the United Nations Sustainable Development Goals UN SDGs This publication serves as a comprehensive repository of cutting edge research innovative strategies and transformative tools discussed by a diverse community of participants including researchers academics students policymakers industry leaders and government officials Encompassing local regional and international perspectives the proceedings delve into critical global issues such as food security environmental preservation energy sustainability economic resilience and the role of digital technologies in fostering sustainable development The publication distills the key messages of ITAS 2023 emphasizing the showcasing of national and international accomplishments fostering global collaborations exploring future challenges and opportunities introducing state of the art technologies and providing policy recommendations for building a sustainable society It acts as a bridge between research and practice promoting the dissemination of knowledge that will contribute to the achievement of UN SDGs

Proceedings of the 2nd International Conference on Electronic Engineering and Renewable Energy Systems Bekkay Hajji, Adel Mellit, Giuseppe Marco Tina, Abdelhamid Rabhi, Jerome Launay, Salah Eddine Naimi, 2020-08-14 This book includes papers presented at the Second International Conference on Electronic Engineering and Renewable Energy ICEERE 2020 which focus on the application of artificial intelligence techniques emerging technology and the Internet of things in electrical and renewable energy systems including hybrid systems micro grids networking smart health applications smart grid mechatronics and electric vehicles It

particularly focuses on new renewable energy technologies for agricultural and rural areas to promote the development of the Euro Mediterranean region Given its scope the book is of interest to graduate students researchers and practicing engineers working in the fields of electronic engineering and renewable energy

Advances in Guidance, Navigation and Control Liang Yan,Haibin Duan,Xiang Yu,2021-11-12 This book features the latest theoretical results and techniques in the field of guidance navigation and control GNC of vehicles and aircraft It covers a range of topics including but not limited to intelligent computing communication and control new methods of navigation estimation and tracking control of multiple moving objects manned and autonomous unmanned systems guidance navigation and control of miniature aircraft and sensor systems for guidance navigation and control Presenting recent advances in the form of illustrations tables and text it also provides detailed information of a number of the studies to offer readers insights for their own research In addition the book addresses fundamental concepts and studies in the development of GNC making it a valuable resource for both beginners and researchers wanting to further their understanding of guidance navigation and control

Convergent Cognitive Information Technologies Vladimir Sukhomlin,Elena Zubareva,2020-01-31 This book constitutes the refereed proceedings of the Third International Conference on Convergent Cognitive Information Technologies Convergent 2018 held in Moscow Russia in December 2018 The 26 revised full papers and 9 short papers were carefully reviewed and selected from 147 submissions The papers of this volume are organized in topical sections on theoretical questions of computer science computational mathematics computer science and cognitive information technologies cognitive information technologies in control systems big data and applications the Internet of Things IoT standards communication and information technologies network applications smart cities standards cognitive information technologies and their applications cognitive information technologies in the digital economics digital transformation of transport

Computational Modeling and Simulation of Intellect: Current State and Future Perspectives Igelnik, Boris,2011-05-31 This book confronts the problem of meaning by fusing together methods specific to different fields and exploring the computational efficiency and scalability of these methods Provided by publisher

Deep Learning for Unmanned Systems Anis Koubaa,Ahmad Taher Azar,2021-10-01 This book is used at the graduate or advanced undergraduate level and many others Manned and unmanned ground aerial and marine vehicles enable many promising and revolutionary civilian and military applications that will change our life in the near future These applications include but are not limited to surveillance search and rescue environment monitoring infrastructure monitoring self driving cars contactless last mile delivery vehicles autonomous ships precision agriculture and transmission line inspection to name just a few These vehicles will benefit from advances of deep learning as a subfield of machine learning able to endow these vehicles with different capability such as perception situation awareness planning and intelligent control Deep learning models also have the ability to generate actionable insights into the complex structures of large data sets In recent years deep learning research has received an increasing amount of attention from researchers in

academia government laboratories and industry These research activities have borne some fruit in tackling some of the challenging problems of manned and unmanned ground aerial and marine vehicles that are still open Moreover deep learning methods have been recently actively developed in other areas of machine learning including reinforcement training and transfer meta learning whereas standard deep learning methods such as recent neural network RNN and coevolutionary neural networks CNN The book is primarily meant for researchers from academia and industry who are working on in the research areas such as engineering control engineering robotics mechatronics biomedical engineering mechanical engineering and computer science The book chapters deal with the recent research problems in the areas of reinforcement learning based control of UAVs and deep learning for unmanned aerial systems UAS The book chapters present various techniques of deep learning for robotic applications The book chapters contain a good literature survey with a long list of references The book chapters are well written with a good exposition of the research problem methodology block diagrams and mathematical techniques The book chapters are lucidly illustrated with numerical examples and simulations The book chapters discuss details of applications and future research areas

Vibration Engineering and Technology of Machinery
José Manoel Balthazar,2021-03-03 This volume gathers the latest advances innovations and applications in the field of vibration and technology of machinery as presented by leading international researchers and engineers at the XV International Conference on Vibration Engineering and Technology of Machinery VETOMAC held in Curitiba Brazil on November 10 15 2019 Topics include concepts and methods in dynamics dynamics of mechanical and structural systems dynamics and control condition monitoring machinery and structural dynamics rotor dynamics experimental techniques finite element model updating industrial case studies vibration control and energy harvesting and MEMS The contributions which were selected through a rigorous international peer review process share exciting ideas that will spur novel research directions and foster new multidisciplinary collaborations

Pan-African Conference on Artificial Intelligence Taye Girma Debelee,Achim Ibenthal,Friedhelm Schwenker,Yehualashet Megersa Ayano,2024-04-09 This two volume set CCIS 2068 and 2069 constitutes selected papers presented during the Second Pan African Conference on Artificial Intelligence PanAfriCon AI 2023 held in Addis Ababa Ethiopia in October 2023 The set goal of the conference is to exchange the best practices of joint Pan African efforts to provide solutions for Africa s key 21st century challenges in the social economic and ecologic domains The 29 papers were thoroughly reviewed and selected from 134 submissions The papers are organized in the following topical sections Medical AI Natural Language Processing Text and Speech Processing AI in Finance and Cyber Security Autonomous Vehicles AI Ethics and Life Sciences

Aircraft Control and Simulation Brian L. Stevens, Frank L. Lewis, Eric N. Johnson,2015-10-05 Get a complete understanding of aircraft control and simulation Aircraft Control and Simulation Dynamics Controls Design and Autonomous Systems Third Edition is a comprehensive guide to aircraft control and simulation This updated text covers flight control systems flight dynamics aircraft modeling and flight simulation from

both classical design and modern perspectives as well as two new chapters on the modeling simulation and adaptive control of unmanned aerial vehicles With detailed examples including relevant MATLAB calculations and FORTRAN codes this approachable yet detailed reference also provides access to supplementary materials including chapter problems and an instructor's solution manual Aircraft control as a subject area combines an understanding of aerodynamics with knowledge of the physical systems of an aircraft The ability to analyze the performance of an aircraft both in the real world and in computer simulated flight is essential to maintaining proper control and function of the aircraft Keeping up with the skills necessary to perform this analysis is critical for you to thrive in the aircraft control field Explore a steadily progressing list of topics including equations of motion and aerodynamics classical controls and more advanced control methods Consider detailed control design examples using computer numerical tools and simulation examples Understand control design methods as they are applied to aircraft nonlinear math models Access updated content about unmanned aircraft UAVs Aircraft Control and Simulation Dynamics Controls Design and Autonomous Systems Third Edition is an essential reference for engineers and designers involved in the development of aircraft and aerospace systems and computer based flight simulations as well as upper level undergraduate and graduate students studying mechanical and aerospace engineering

Intuitionistic and Type-2 Fuzzy Logic Enhancements in Neural and Optimization Algorithms: Theory and Applications
Oscar Castillo, Patricia Melin, Janusz Kacprzyk, 2020-02-27 This book describes the latest advances in fuzzy logic neural networks and optimization algorithms as well as their hybrid intelligent combinations and their applications in the areas such as intelligent control robotics pattern recognition medical diagnosis time series prediction and optimization The topic is highly relevant as most current intelligent systems and devices use some form of intelligent feature to enhance their performance The book also presents new and advanced models and algorithms of type 2 fuzzy logic and intuitionistic fuzzy systems which are of great interest to researchers in these areas Further it proposes novel nature inspired optimization algorithms and innovative neural models Featuring contributions on theoretical aspects as well as applications the book appeals to a wide audience

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