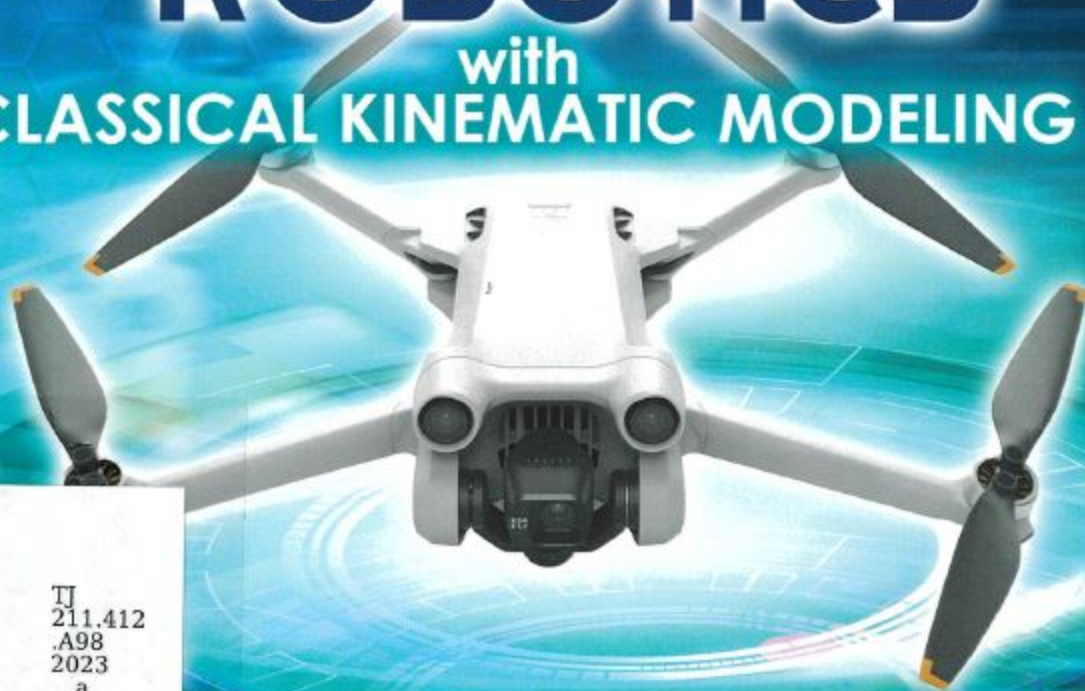


CONTEMPORARY ROBOTICS

with
CLASSICAL KINEMATIC MODELING



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AHMAD YUSAIRI BANI HASHIM

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Ahmad Yusairi Bani Hashim

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TABLE OF CONTENTS

Preface	ix
CHAPTER 1 INTRODUCTION	1
1.1 Overview.....	1
1.2 Control Scheme.....	2
1.3 Environment Representation and Modeling	4
1.4 The Basics of Industrial Robotics	6
1.4.1 Robot Definition.....	6
1.5 Exercise 1.....	10
CHAPTER 2 LOCOMOTION	13
2.1 Concepts of Locomotion.....	13
2.2 Bipedal Mechanism	14
2.3 Quadrupedal Mechanism	15
2.4 Gait Characteristics.....	16
2.4.1 Scilab Code for Finding the Number of Possible Walking Events.....	18
2.5 Wheel Mechanism.....	19
2.6 Drive Systems	20
2.6.1 Omni-directional Drive.....	20
2.6.1.1 Swerve Drive	20
2.6.1.2 Holonomic Drive	21
2.6.1.3 Mecanum Drive	21
2.6.2 Synchro Drive.....	22
2.7 Exercise 2.....	22
CHAPTER 3 KINEMATICS	25
3.1 Motion Control.....	25
3.2 Kinematics	25
3.2.1 Model	25
3.3 Differential Drive	27
3.3.1 Model	27

3.3.2 Instantaneous Center of Rotation	28
3.4 Kinematic Constraints	29
3.4.1 Fixed Wheel Constraint	29
3.4.2 Castor Wheel Constraint	30
3.4.3 Overall Kinematic Constraint	31
3.4.4 Kinematics of A Three-Wheeled Omnidirectional Robot	32
3.5 Worked Example	33
3.5.1 Example 1	33
3.5.2 Example 2	33
3.5.3 Example 3	35
3.5.4 Example 4	36
3.5.5 Example 5	38
3.6 Exercise 3	42
CHAPTER 4 WORKSPACE	43
4.1 Robot Mobility	43
4.2 Kinematic Control	45
4.2.1 Basic Controls	45
4.3 Holonomy	48
4.3.1 Nonholonomic Systems	49
4.4 Worked Example	51
4.4.1 Example 1	51
4.4.2 Example 2	51
4.4.3 Example 3	51
4.4.4 Example 4	51
4.5 Exercise 4	54
CHAPTER 5 MAPPING THE UNKNOWN ENVIRONMENT	57
5.1 Introduction	57
5.2 Worked Example	58
5.2.1 Example 1	58
5.2.2 Example 2	58
5.2.3 Example 3	58
5.2.4 Example 4	59
5.3 Generalized Voronoi Graph	59
5.4 Worked Example	60

5.4.1 Example 1	60
5.4.2 Example 2	60
5.4.3 Example 3	61
5.5 GVG Algorithm	62
CHAPTER 6 INTRODUCTION TO ROBOT MANIPULATORS	63
6.1 Robot Classification: Robotics Institute of America	63
6.2 Robot Classification: Japanese Industrial Robot Association	63
6.3 Definition of A Robot	64
6.4 Robot System	64
6.5 Robot Accessories	64
6.6 Robot Manipulators	64
6.7 Commonrobot Configurations	65
6.8 Degrees of Freedom (DoF)	66
6.9 Application of Robot	68
6.9.1 Qualification: Can I use A Robot?	68
6.9.2 Engineering: Alternatives to the Robot	68
6.10 Exercise 6	68
6.11 Worked Example	68
Assignment	74
CHAPTER 7 FORWARD KINEMATICS.....	79
7.1 Frame Assignment	79
7.2 Denevit-Hartenberg Convention	80
Example 7.1	82
Example7.2	82
Example7.3	84
7.3 Chris-Anin Manipulator	85
Tutorial 7.1 Simulation with Scilab	86
Tutorial 7.2 Inverse Kinematic	91
Theoretical Background	92
REFERENCES.....	95
INDEX	97

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This book is based on the lecture notes, handouts, and reference materials. It has been developed for the course Advanced Robotics and Robotics Laboratory taught by the author at Universiti Teknikal Malaysia Melaka's the Faculty of Manufacturing Engineering. The contents of this book are meant to introduce basic concepts and methodologies for mobile robot design, development, and evaluation. The mathematical complexity of the module remains at a level well within the grasp of final-year undergraduate and early-stage graduate students. The book provides the foundation for further study and research in the field of mobile robots and manipulators. Though it is not a comprehensive reference for Robotics courses, it does provide a valuable resource for readers who need a fast reference on robotics.



Ahmad Yusairi received his Ph.D. from the University of Malaya and his bachelor's degree from the Pennsylvania State University. He had been in the teaching profession for about 20 years in the field of technology and manufacturing engineering. He is now a retired professor from Universiti Teknikal Malaysia Melaka (UTeM). While working, he was assigned to teach Robotics and continued teaching the same course for some time.



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