xviii Contents

	24.6 24.7	Using Vision	961 965
25 Robotics			<b>97</b> 1
	25.1	Introduction	971
	25.2	Robot Hardware	973
	25.3	Robotic Perception	978
	25.4	Planning to Move	986
	25.5	Planning Uncertain Movements	993
	25.6	Moving	997
	25.7	Robotic Software Architectures	1003
	25.8	Application Domains	1006
	25.9	Summary, Bibliographical and Historical Notes, Exercises	1010
VI	I Co	onclusions	
26	Philos	sophical Foundations	1020
	26.1	Weak AI: Can Machines Act Intelligently?	1020
	26.2	Strong AI: Can Machines Really Think?	1026
	26.3	The Ethics and Risks of Developing Artificial Intelligence	1034
	26.4	Summary, Bibliographical and Historical Notes, Exercises	1040
27	AI: T	he Present and Future	1044
	27.1	Agent Components	1044
	27.2	Agent Architectures	1047
	27.3	Are We Going in the Right Direction?	1049
	27.4	What If AI Does Succeed?	1051
A	Math	ematical background	1053
•	A.1	Complexity Analysis and O() Notation	
	A.2	Vectors, Matrices, and Linear Algebra	
	A.3	Probability Distributions	1057
В	Notes	on Languages and Algorithms	1060
	B.1	Defining Languages with Backus–Naur Form (BNF)	1060
	B.2	Describing Algorithms with Pseudocode	1061
	B.3	Online Help	1062
Bibliography 10			
Index			1095