

# Contents

<b>1</b>	<b>Definitions and Concepts of Animal Welfare</b> .....	1
	Introduction .....	1
	Coping with the Environment .....	2
	Animal's Feelings .....	3
	Experiences .....	5
	Quantifying Experiences – An Accounting Perspective .....	8
	Naturalness .....	11
	Animal Needs and Desires .....	11
<b>2</b>	<b>Mankind's Relationship to Animals in Nature</b> .....	13
	Introduction .....	13
	Changes in Attitudes to Animals Over Time .....	13
	Palaeolithic Period .....	13
	Neolithic Period and Early Civilisations .....	15
	The Middle Ages .....	19
	The Renaissance .....	23
	Victorian Times .....	25
	Recent Times .....	27
	Conclusions on Changes in Attitudes to Animals Over Time .....	29
	The Benefits of Naturalness .....	30
	Life in a Natural Setting .....	34
	Animals in the Wild, What Can They Tell Us About the Needs of Domestic Animals? .....	38
<b>3</b>	<b>Empathy Towards Animals</b> .....	47
	Introduction .....	47
	Empathy and Domestication .....	48
	Gender Issues .....	50
	Nationality Issues .....	51
	Empathy and Animal Welfare .....	51
	Empathy and Learning .....	52
	Conclusions on Empathy .....	53

<b>4</b>	<b>Animal Welfare and Animal Rights</b> .....	55
	The Evolution of Standards Supporting Moral Behaviour	
	Towards Animals .....	55
	Influences on Concern for Animal Welfare .....	60
	Animal Welfare vs Animal Rights .....	63
	Western Attitudes Towards Animal Welfare .....	64
	Addressing the Animal Rights Issues .....	65
	Morality Towards Animals .....	67
	Cruelty to Animals .....	69
	Cruelty Legislation .....	75
	Concluding Remarks .....	77
<b>5</b>	<b>Welfare Assessment</b> .....	79
	Introduction .....	79
	Welfare Perception .....	82
	Positive and Negative Welfare Components .....	82
	Welfare Assessment .....	86
	Legislation and Audits .....	89
<b>6</b>	<b>Managing Animal Welfare and Rights</b> .....	93
	Introduction .....	93
	Religious and Historical Perspectives .....	93
	Christianity .....	93
	The Islamic Faith .....	98
	Judaism .....	100
	Hinduism .....	101
	Buddhism .....	102
	Religious Unification on Attitudes Towards Animals .....	103
	Recent Development of Attitudes to Animals .....	105
	Modern Management of Animal Welfare .....	107
	Animal's Right to Life and Welfare .....	112
	Animal Sacrifice .....	115
	Animal Slaughter .....	117
	Pain .....	119
	Surveys of Attitudes to Pain as a Component	
	of Animal Welfare .....	120
	Evaluating Pain Responses as a Component of Animal Welfare ..	121
	Conclusions on Pain .....	122
	Improving Animal Welfare in Developed and Developing	
	Countries .....	123
	The Treatment of Animals by Indigenous People .....	126
<b>7</b>	<b>Teaching Animal Welfare</b> .....	129
	Teaching Veterinarians About Animal Welfare .....	131
	Decision Making for the Treatment of Animals by Veterinarians ...	134

<b>8</b>	<b>Animal Welfare Science</b> .....	137
	Historical Development .....	137
	Growth in Animal Welfare Science.....	139
	Impact of Animal Welfare Science on Animal Welfare .....	145
	Independence of Research Effort .....	145
	Industry Funding of Animal Welfare Research .....	146
	Relationships Between Farm Profitability and Animal Welfare: the Lessons for Animal Welfare Research .....	147
<b>9</b>	<b>The Scale and Intensity of the World's Animal Industries</b> .....	149
	Intensity of Animal Industries and Corporate Interests.....	149
	Differences Between Intensive and Extensive Animal Industries ...	150
	Scale of the Animal Industries .....	151
	Agricultural Animals.....	153
	Companion Animals.....	155
	Laboratory Animals .....	156
	Zoo Animals .....	157
	Utility Animals .....	157
	Wild Animals .....	158
	The Human Footprint on the 'Silent Majority' of Animals .....	161
	Intensification of Animal Production for Food .....	161
	Farming Skills .....	166
	Industrial Impacts on Animal Health and Welfare .....	169
	Changes in Companion Animal Management .....	170
	Conclusions.....	171
<b>10</b>	<b>Animals in Research</b> .....	173
	Historical Background .....	173
	Ethical Assessment of Animal Use in Research .....	173
	Ethical Dilemmas .....	178
	Genetic Modification of Organisms .....	180
	Xenotransplantation .....	182
<b>11</b>	<b>Future Developments in Animal Welfare</b> .....	187
	Farm Animals .....	188
	Companion Animals.....	189
	Wild Animals .....	190
	The Scope of Animal Welfare Concerns.....	191
	<b>References</b> .....	193
	<b>Index</b> .....	215