
Access Free Animals As Biotechnology Ethics Sustainability And Critical Animal Studies Science In Society Hardcover Hardback Common

Recognizing the pretension ways to get this book **Animals As Biotechnology Ethics Sustainability And Critical Animal Studies Science In Society Hardcover Hardback Common** is additionally useful. You have remained in right site to start getting this info. get the Animals As Biotechnology Ethics Sustainability And Critical Animal Studies Science In Society Hardcover Hardback Common connect that we present here and check out the link.

You could purchase guide Animals As Biotechnology Ethics Sustainability And Critical Animal Studies Science In Society Hardcover Hardback Common or get it as soon as feasible. You could quickly download this Animals As Biotechnology Ethics Sustainability And Critical Animal Studies Science In Society Hardcover Hardback Common after getting deal. So, like you require the book swiftly, you can straight acquire it. Its appropriately unquestionably easy and as a result fats, isnt it? You have to favor to in this impression

IJ4VZE - BEST GIOVANNY

154 citations in English covering: biotechnology, bioengineering, transgenic topics, genetics, & ethics, mass media, society, consumers, public opinion, etc. Many citations have abstracts. Author & subject indexes.

As the scholarly and interdisciplinary study of human/animal relations becomes crucial to the urgent questions of our time, notably in relation to

environmental crisis, this collection explores the inner tensions within the relatively new and broad field of animal studies. This provides a platform for the latest critical thinking on the condition and experience of animals. The volume is structured around four sections: engaging theory doing critical animal studies and anti-capitalism contesting the human, liberating the animal: veganism and activism. The Rise of Critical

Animal Studies demonstrates the centrality of the contribution of critical animal studies to vitally important contemporary debates and considers future directions for the field. This edited collection will be useful for students and scholars of sociology, gender studies, psychology, geography, and social work.

Environmentalism and ecology are areas of rapid growth in academia and society at large. Screening Nature is the first com-

prehensive work that groups together the wide range of concerns in the field of cinema and the environment, and what could be termed “posthuman cinema.” It comprises key readings that highlight the centrality of nature and nonhuman animals to the cinematic medium, and to the language and institution of film. The book offers a fresh and timely intervention into contemporary film theory through a focus on the nonhuman environment as principal register in many filmic texts. *Screening Nature* offers an extensive resource for teachers, undergraduate students, and more advanced scholars on the intersections between the natural world and the worlds of film. It emphasizes the cross-cultural and geographically diverse relevance of the topic of cinema ecology.

This book examines the theme of human-animal interactions contextualized against the idea of the Anthropocene. Focused on China and its immediate Asian borderlands, this interdisciplinary collection provides a powerful and insightful analysis of the ecological challenges that mankind’s traditional activities have created. Through in-depth case

studies, each focusing on a particular human-animal dynamic, the book contextualises and advances the understanding of existing environmental and ecological problems faced by local communities in Asia. In particular, the book hopes to transcend the duality of the nature versus culture debate by locating animal-ecological problems in the behavior of human institutions, beliefs and practices, which are often affected by prevailing cultural proclivities, political ideologies, economic interests and scientific agendas. Through interrogation of theoretical concepts of Anthropocene and human-animal binary, the volume highlights the controversial debates that follows their usage as well as their empirical utility understanding human-animal interactions historically, thereby engaging a broader interdisciplinary conversation is increasingly links these two fields together. Providing a platform for discussion and dialogue for a wide audience, this book will appeal to students and scholars of environmental history and politics, anthropology, political science and policy studies, China studies and Asian studies more generally.

Food has emerged as a political topic par excellence. It is increasingly involved in controversies at a transnational level, in relation to issues of access, dominance, trade and control in a shared global environment. At the same time, innovations in biotechnology and animal domestication have brought ethics to the forefront of food debates. Thus, we live in an era when the ethics and the politics of food must come together. This book addresses the ethics and the politics of food from a broad range of academic disciplines, including sociology, philosophy, nutrition, anthropology, ethics, political science and history. The chapters expose novel problem areas, and suggest guidelines for approaching them. Topics range from fundamental issues in philosophy to sustainability, from consumer trust in food to ethical toolkits. Transparency, power and responsibility are key concerns, and special attention is given to animal welfare, emerging technologies in food production and marine domestication. Together, the chapters represent a wide range of academic responses to the fundamental dilemmas posed by food production and food

consumption in the contemporary world.

At a time of increased concern over animal welfare and environmental degradation, the global demand for animal-based protein is necessitating the development and use of emerging agricultural technology. Focusing on livestock production systems, this comprehensive text addresses how the growing diversity of global food demands will be met in the future, providing insights into new and emerging scientific areas and the implications for addressing global drivers for change. Contributions from a wealth of international experts cover ethical, philosophical and systemic considerations, the impact of genomics on livestock production, the holistic systems perspective, the complex systems approach using stochastic modelling methods, and how all these factors can be linked to achieve sustainable outcomes.

Edited by Tom L. Beauchamp and R.G. Frey.

This book is a philosophically-oriented introduction to bioethics. It offers the reader an overview of key current debates in bioethics in the areas including organ retrieval, stem cell research, justice

in healthcare and issues in environmental ethics including issues surrounding food and agriculture. The book also seeks to go beyond describing the issues in order to provide the reader with the methodological and theoretical tools for a more comprehensive understanding of bioethical debates. The book investigates the theoretical foundations and normative implications of bioethical debates and situates the areas of ethics into their philosophical context.

In *Animals as Biotechnology* sociologist Richard Twine places the question of human/animal relations at the heart of sustainability and climate change debates. The book is shaped by the emergence of two contradictory trends within our approach to nonhuman animals: the biotechnological turn in animal sciences, which aims to increase the efficiency and profitability of meat and dairy production; and the emerging field of critical animal studies - mostly in the humanities and social sciences - which works to question the nature of our relations with other animals. The first part of the book focuses on ethics, examining critically the domi-

nant paradigms of bioethics and power relations between human and non-human. The second part considers animal biotechnology and political economy, examining commercialisation and regulation. The final part of the book centres on discussions of sustainability, limits and an examination of the prospects for animal ethics if biotechnology becomes part of the dominant agricultural paradigm. Twine concludes by considering whether growing calls to reduce our consumption of meat/dairy products in the face of climate change threats are in fact complicit with an anthropocentric understanding of sustainability and that what is needed is a more fundamental ethical and political questioning of relations and distinctions between humans, animals and nature.

Human-animal studies is an interdisciplinary field that explores the spaces that animals occupy in human social and cultural worlds. It examines the interactions humans and animals have with each other and the ways animal lives intersect with human societies. Since existing social orders rely on the exploitation of animals to serve human

needs, the questions posed by human-animal studies touch upon a wide range of fundamental issues. *Animals and Society* provides a broad overview of this rapidly growing field. Margo DeMello offers students and scholars a holistic and comprehensive picture of the state of inquiry into the relationships that exist between humans and other animals. She considers interactions between animals and humans in social organizations, such as the family, the legal system, and political and religious institutions. A major focus is the social construction of animals in world cultures and the way in which these social meanings are used to reinforce and perpetuate hierarchical human relationships such as racism, sexism, and class privilege. The book also examines how different human groups construct a range of identities for themselves and for others through animals. This second edition of *Animals and Society* is fully updated and expanded throughout, enhancing the book's relevance for student and activist readers alike. It includes many new international examples, all-new case studies, and updated supplementary readings.

This book examines how biotechnology can improve livestock breeding and farming, and thereby also animal products. In the first chapters the reader will discover which techniques and approaches are currently used to improve animal breeding, animal health and the value of animal products. Particular attention is given to reproduction techniques, animal nutrition and livestock vaccines that not only enhance animal health but also have a significant effect on human health by ensuring safe food procurement and preventing zoonotic diseases. In addition, modern biotechnology can increase not only productivity but also the consistency and quality of animal food, fiber and medical products. In the second part of the book, issues such as how animal biotechnology could affect the environment and the important topic of animal waste management are explored. In the concluding chapter, the authors discuss future challenges related to animal biotechnology. This work will appeal to a wide readership, from scientists and professionals working in animal production, to those in farm animal management and veterinary science. Climate change is a major

framing condition for sustainable development of agriculture and food. Global food production is a major contributor to global greenhouse gas emissions and at the same time it is among the sectors worst affected by climate change. This book brings together a multidisciplinary group of authors exploring the ethical dimensions of climate change and food. Conceptual clarifications provide a necessary basis for putting sustainable development into practice. Adaptation and mitigation demand altering both agricultural and consumption practices. Intensive vs. extensive production is reassessed with regard to animal welfare, efficiency and environmental implications. Property rights play an ever-increasing role, as do shifting land-use practices, agro-energy, biotechnology, food policy to green consumerism. And, last but not least, tools are suggested for teaching agricultural and food ethics. Notwithstanding the plurality of ethical analyses and their outcome, it becomes apparent that governance of agri-food is faced by new needs and new approaches of bringing in the value dimension much more explicitly. This book is intend-

ed to serve as a stimulating collection that will contribute to debate and reflection on the sustainable future of agriculture and food production in the face of global change.

In this edited volume, scientists from different disciplines discuss modern biotechnological processes and a knowledge-based bioeconomy. The authors base their arguments on ecological, economic, legal, social and ethical aspects. Moreover, they explore the opportunities, risks, and challenges of bioeconomic concepts and biotechnologies in many subject areas. The chapters consider land use, nature and environment, nutrition, technology and governance, energy, economy, law and regulation, as well as ethics. A special focus should be on new technologies and how they can be used, without compromising the ambitious goal of creating a more sustainable, but also fair world. To do justice to this broad array of topics, the editors frame all topics in overarching introductions and close the volume with final conclusions. Thereby this volume offers data and critical thoughts for any member of a Bioeconomy - be it from

academia, the industry or public regulation.

None of us can avoid being interested in food. Our very existence depends on the supply of safe, nutritious foods. It is then hardly surprising that food has become the focus of a wide range of ethical concerns: Is the food we buy safe? Is it produced by means which respect the welfare of animals and sustain the land? Are modern biotechnologies employed in food production immoral? This book addresses such issues by applying ethical principles to many areas of current concern. The contributors provide original and thought-provoking treatments of a number of highly topical issues - from global hunger and its ethical implications to the cultural habits affecting consumption. This interdisciplinary study will prove to be essential reading for all those concerned with food, as professionals, students or consumers.

Sustainability has become an issue widely debated in many countries. Given the central role of food supply and the emotional relationship that modern mankind still has to its food, sustainability is seen as a value which has to be maintained throughout food supply chains. The com-

plexity of modern food systems invokes a variety of ethical implications which emerge from contrasts between ideals, perceptions and the conditions of technical processes within food systems, and the concerns connected to this. This book covers a broad range of aspects within the general issue of sustainable food production and ethics. Linking different academic disciplines, topics range from reflections about the roots of sustainability and the development of concepts and approaches to globalisation and resilience of food systems as well as specific ethical aspects of organic farming and animal welfare. Modern technologies which are intensely advocated by certain stakeholder groups and their societal challenges are addressed, as are many other specific cases of food production and processing, consumer perception and marketing. Just as climate change and environmental sustainability have become growing concerns in public discourse, so too have they become a persistent focus in business and organization studies. It is increasingly acknowledged that humans and animals do not dwell in separate spheres; rather,

they are entangled in a number of commercial or organizational settings, and organization theory needs to respond more comprehensively to this more-than-human shift in outlook. Important questions continue to arise about the nature of contemporary organization and organizing practices: who are these for? Who benefits from the operation of increasingly globalized capital markets? What place is there for the nonhuman animals in all this organization? What place is there for multispecies companionship, solidarity, and mutual value creation today and in the future, if any? This volume brings together interdisciplinary work on human-animal relationships within business, management, and organization for the first time. It maps the contours of an emerging new discipline, here termed 'Animal Organization Studies', touching on the politics, theory, and empirical experience of multispecies life-worlds. Spanning a number of disciplinary approaches including critical geography, critical management studies, social studies of science, and human-animal studies, the volume highlights the contact points as well as the ten-

sions in humanity's relationship with a range of animal species and habitats. It holds relevance for those investigating debates around humanism and its futures; environmental and sustainability matters; the experience of working with and on animals, and the future of animal consumption and production.

This handbook provides an in-depth examination of the practical and theoretical issues within the emerging field of animal ethics. Leading experts from around the globe offer insights into cutting edge topics as diverse as killing for food, religious slaughter, animal companions, aquariums, genetic manipulation, hunting for sport and bullfighting. Including contributions from Lisa Johnson on the themes of human dominance, Thomas White on the ethics of captivity, Mark Bernstein on the ethics of killing and Kay Peggs on the causation of suffering, this handbook offers an authoritative reference work for contemporary applied animal ethics. Progressive in approach, the authors explore the challenges that animal ethics poses both conceptually and practically to traditional understandings

of human-animal relations. Key Features:

- Structured in four parts to examine the ethics of control, the ethics of captivity, the ethics of killing and the ethics of causing suffering
- Interdisciplinary approach including philosophical, historical, scientific, legal, anthropological, religious, psychological and sociological perspectives
- Focussed treatment of practical issues such as animals in farming, zoos and animal experimentation

The Palgrave Handbook of Practical Animal Ethics is an essential resource for those with an interest in the ethics of modern-day treatment of animals as well as scholars, researchers and advanced students in zoology, philosophy, anthropology, religious studies and sociology.

This book examines the work of the World Trade Organization (WTO), with a focus on the capacity of its judiciary to strike a reasoned balance between free trade in biotechnology and biosafety as to promote the 2030 Agenda for Sustainable Development and its Sustainable Development Goals. By adopting an innovative interpretation of the precautionary principle and proportionality analysis, the

work offers normative suggestions to develop what the author terms “a constructive bridge of knowledge” between decision-makers, scientists, social experts and expert witnesses, which can support a judicial balance by design rather than by chance. Biotechnology is sometimes regarded as a panacea for modern-day challenges, such as feeding a growing world population and counteracting climate-change problems, and a means of offering significant economic opportunities. However, biotechnology can present uncertain, though serious, risks to human health and the environment (i.e., biosafety). Trading biotech products magnifies these risks and benefits globally. This book explores the topical, though still underexplored, question of how to find a point of equilibrium between the revolutionary advancement offered by technology and the need to safeguard biosafety from uncertain, though potentially irreversible, technology risks. It offers a thorough analysis of normative, judicial and epistemic issues hindering a reasoned balance between trade and non-trade interests under the WTO. The work offers prac-

tical relevance for the resolution of legal disputes in contexts of uncertainty, as well as innovative theoretical contributions. It will be a valuable resource for policymakers working on precautionary governance and management, scholars in the areas of trade law, human rights law and environmental law, law students and practitioners, as well as NGOs working in the field of new technologies, biosafety, sustainability and food safety.

This two-volume textbook provides a comprehensive overview on the broad field of Animal Biotechnology with a special focus on livestock reproduction and breeding. The reader will be introduced to a variety of state-of-the-art technologies and emerging genetic tools and their applications in animal production. Also, ethics and legal aspects of animal biotechnology will be discussed and new trends and developments in the field will be critically assessed. The two-volume work is a must-have for graduate students, advanced undergraduates and researchers in the field of veterinary medicine, genetics and animal biotechnology. This second volume is dedicated to genetic tools in ani-

mal biotechnology such as somatic cloning, transgenic technologies and the application of stem cells in livestock breeding. Also, ethics and legal aspects are discussed.

Food production and consumption is no longer a traditional activity. Every day we make choices that influence not only our health, but also that of other living beings, and our planet. Our food cultures are changing rapidly. Do we still know our food? And if not, is that a bad thing? This book presents the state of the art in agriculture and food ethics. It considers a wide range of ethics and innovation topics in agriculture, aquaculture, markets, consumption and food culture. Its multi-disciplinary analysis by the many authors helps to understand our current global challenges. At the same time it opens a wide range of new possibilities for future debate, research and reflection towards a sustainable world. The book will appeal to anyone interested in agriculture, animal and food ethics. To students and people looking for a quick overview it offers a wide range of issues. Experienced readers will find a deepened analysis and new themes and perspec-

tives adding to the existing body of knowledge.

The introduction of new technologies can be controversial, especially when they create ethical tensions as well as winners and losers among stakeholders and interest groups. While ethical tensions resulting from the genetic modification of crops and plants and their supportive gene technologies have been apparent for decades, persistent challenges remain. This book explores the contemporary nature, type, extent and implications of ethical tensions resulting from agricultural biotechnology specifically and technology generally. There are four main arenas of ethical tensions: public opinion, policy and regulation, technology as solutions to problems, and older versus new technologies. Contributions focus on one or more of these arenas by identifying the ethical tensions technology creates and articulating emerging fault lines and, where possible, viable solutions. Key features include focusing on contemporary challenges created by new and emerging technologies, especially agricultural biotechnology. Identifying a unique perspective by

considering the problem of ethical tensions created or enhanced by new technologies. Providing an interdisciplinary perspective by including perspectives from sociologists, economists, philosophers and other social scientists. This book will be of interest to academics in agricultural economics, sociology and philosophy and policymakers concerned with introducing new technology into agriculture.

Foucault and Animals is the first collection to explore the relevance of Foucault's thought for the animal question. Chrulew and Wadiwel bring together essays that open up his influential range of concepts and methods to new domains of human-animal relations.

Part I. Animals in the landscape of law, politics, and public policy. Animal rights / Gary Francione and Anna Charlton -- Animals in political theory / Sue Donaldson and Will Kymlicka -- Animals as living property / David Favre -- The human-animal bond / James Serpell -- Animal sheltering / Leslie Irvine -- Roaming dogs / Arnold Arluke and Kate Atema -- Misothery : contempt for animals and nature, its origins, purposes, and repercussions / James B. Mason

-- Continental approaches to animals and animality / Ralph Acampora -- Animals as legal subjects / Paul Waldau -- The struggle for compassion and justice through critical animal studies / Carol Gigliotti -- Interspecies dialogue and animal ethics : the feminist care perspective / Josephine Donovan -- Part II. Animal intentionality, agency, and reflexive thinking. Cetacean cognition / Lori Marino -- History and animal agencies / Chris Pearson -- Animals as sentient commodities / Rhoda WilPart I.kie -- Animal work / Jocelyne Porcher -- Animals as reflexive thinkers : the Aponoian paradigm / Mark Rowlands and Susana Monsó -- Part III. Animals as objects in science, food, spectacle, and sport. The ethics of animal research / Bernard Rollin -- The ethics of food animal production / Paul Thompson -- Animals as scientific objects / Mike Michael -- The problem with zoos / Randy Malamud -- Wolf hunting and the ethics of predator control / John Vucetich and Michael P. --Nelson -- Part IV. Animals in cultural representations. Practice and ethics of the use of animals in contemporary art / Joe Zammit-Lucia -- Animals in folklore / Boria Sax -- Part V. Animals in

ecosystems. Archaeozoology / Juliet Cluton-Brock -- Animals and ecological science / Anita Guerrini -- Staging privilege, proximity, and "extreme animal tourism" / Jane Desmond -- Commensal species / Terry O'Connor -- Lively cities : people, animals, and urban ecosystems / Marcus Owens and Jennifer Wolch -- Animals in religion / Stephen R.L. Clark.

The timeless human desire to be more beautiful, intelligent, healthy, athletic, or young has given rise in our time to technologies of human enhancement. Athletes use drugs to increase their strength or stamina; cosmetic surgery is widely used to improve physical appearance; millions of men take drugs like Viagra to enhance sexual performance. And today researchers are exploring technologies such as cell regeneration and implantable devices that interact directly with the brain. Some condemn these developments as a new kind of cheating—not just in sports but in life itself—promising rewards without effort and depriving us most of all of what it means to be authentic human beings. "Transhumanists," on the other hand, reject what they see as a rationalizing of

human limits, as if being human means being content forever with underachieving bodies and brains. To be human, they insist, is to be restless with possibilities, always eager to transcend biological limits. As the debate grows in urgency, how should theology respond? Christian theologians recognize truth on both sides of the argument, pointing out how the yearnings of the transhumanists—if not their technological methods—find deep affinities in Christian belief. In this volume, Ronald Cole-Turner has joined seasoned scholars and younger, emerging voices together to bring fresh insight into the technologies that are already reshaping the future of Christian life and hope.

This book explores human-animal relations and species-based domination at the intersection of feminism with critique of our domination and exploitation of nonhuman animals, in conversation with power dynamics around coloniality and race, class, sexuality and embodiment. The collection demonstrates the continued vital importance of feminism - conceptually and theoretically, methodologically and politically - to

the development of animal studies. Feminism has made an incisive critique of the ways in which gender and other intersecting differences and inequalities are constitutive of our destructive, exploitative and often violent relationships with nonhuman worlds. An international group of scholars and activists showcase new work, revisiting and extending established debates while negotiating new paths. Amongst the issues addressed in this collection will be questions of animal being and animal rights, caring relations, the relationships between activism and theory, interspecies sexual violence, tension in the animal defence movement around body politics, gender politics and professionalisation, different spaces of gender and animal relations from social media to sexology, safe spaces and sanctuaries, spaces of home - both in times of 'business-as-usual' and in times of lockdown. This multidisciplinary volume will be essential reading to students and academics working in the fields of cultural studies, criminology, geography, history, law, philosophy, politics and sociology, with interest in gender, environmentalism and ani-

mal studies. The editors work in the School of Applied Social Sciences at De Montfort University, Leicester, UK, and share interests in gender and species violence, environmental harms, social justice matters and intersected inequalities.

This book grounds deliberative democratic theory in a more refined understanding of deliberative practice, in particular when dealing with intractable moral disagreement regarding novel technologies. While there is an ongoing, vibrant debate about the theoretical merits of deliberative democracy on the one hand, and more recently, empirical studies of specific deliberative exercises have been carried out, these two discussions fail to speak to one another. Debates about animal and plant biotechnology are examined as a paradigmatic case for intractable disagreement in today's pluralistic societies. This examination reveals that the disagreements in this debate are multi-faceted and multi-dimensional and can often be traced to fundamental disagreements about values or world-views. "One of the acute insights to emerge from this examination is that deliberation can serve

different purposes vis-à-vis different types of problem. In the case of deeply unstructured problems, like the modern biotechnology debate, the aim of inclusion is more appropriate than the aim of consensus. This book highlights the importance of political culture and broader institutional settings in shaping the capacity and propensity of citizens to engage in deliberation and the degree to which governments are prepared to relinquish authority to deliberative mini-publics." Robyn Eckersley, University of Melbourne, Australia

Gain a solid understanding of the importance of business ethics, sustainability and stakeholder management using a strong managerial perspective within Carroll/Brown/Buchholtz's *BUSINESS AND SOCIETY: ETHICS, SUSTAINABILITY, AND STAKEHOLDER MANAGEMENT*, 11E. You discover, first-hand, how today's most successful business decision makers both balance and protect the interests of various stakeholders, including investors, employees, consumers, the community, and the environment. You learn how strong business decisions making skills are particularly critical as businesses navi-

gate today's issues, such as climate change and a global pandemic. Updated chapter content and 34 timely cases examine the social, legal, political and ethical responsibilities of a business to all external and internal groups that have a stake or interest in that business. Ethics in Practice cases also provide opportunities to apply your skills. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The analysis of meat and its place in Western culture has been central to Human-Animal Studies as a field. Meat Culture brings into focus urgent critiques of hegemonic 'meat culture', animal farming and the wider animal industrial complex.

This book addresses the persistence of meat consumption and the use of animals as food in spite of significant challenges to their environmental and ethical legitimacy. Drawing on Foucault's regime of power/knowledge/pleasure, and theorizations of the gaze, it identifies what contributes to the persistent edibility of 'food' animals even, and particularly, as this edibility is increasingly critiqued. Begin-

ning with the question of how animals, and their bodies, are variously mapped by humans according to their use value, it gradually unpacks the roots of our domination of 'food' animals - a domination distinguished by the literal embodiment of the 'other'. The logics of this embodied domination are approached in three inter-related parts that explore, respectively, how knowledge, sensory and emotional associations, and visibility work together to render animal's bodies as edible flesh. The book concludes by exploring how to more effectively challenge the 'entitled gaze' that maintains 'food' animals as persistently edible.

The issue of animal welfare has attracted much attention in Australia in recent decades. Activists and welfare organisations have become increasingly vigorous in promoting a new ethical relationship between humans and animals, and in challenging practices they identify as inhumane. In 2011 this agitation culminated in the temporary suspension of cattle live exports, with significant economic and political implications for Australia. Similar campaigns have focused on domestic food production

systems and the use of animals in entertainment. Yet despite this increased interest, the policy process remains poorly understood. *Animal Welfare in Australia* is the first Australian book to examine the topic in a systematic manner. Without taking a specific ethical position, Chen draws on a wide range of sources - including activists, industry representatives and policy makers - to explain how policy is made and implemented. He explores the history of animal welfare in Australia, examines public opinion and media coverage of key issues, and comprehensively maps the policy domain. He shows how diverse social, ethical and economic interests interact to produce a complex and unpredictable climate. *Animal Welfare in Australia* will be of interest to scholars and practitioners of public policy, those interested in issues of animal welfare, and anyone wishing to understand how competing interests interact in the contemporary Australian policy landscape.

The focus of *Biotechnology Fundamentals* is to educate readers on both classical and modern aspects of biotechnology and to expose them to a range of

topics, from basic information to complex technicalities. Other books cover subjects individually, but this text offers a rare topical combination of coverage, using numerous helpful illustrations to explore the information that students and researchers need to intelligently shape their careers. Keeping pace with the rapid advancement of the field, topics covered include: How biotechnology products are produced Differences between scientific research conducted in universities and industry Which areas of biotechnology offer the best and most challenging career opportunities Key laboratory techniques and protocols employed in the field The contents of this book are derived from discussions between teachers and undergraduate students and designed to address the concepts and methods thought useful by both sides. Starting with the fundamentals of biotechnology, coverage includes definitions, historical perspectives, timelines, and major discoveries, in addition to products, research and development, career prospects, ethical issues, and future trends. The author explains that even before it had been classified as its

own field, biotechnology was already being applied in plant breeding, in vitro fertilization, alcohol fermentation, and other areas. He then delves into new developments in areas including stem cell research, cloning, biofuels, transgenic plants, genetically modified food/crops, pharmacogenomics, and nanobiotechnology. Incorporating extensive pedagogy into the content, this book provides plenty of examples, end-of-chapter problems, case studies, and lab tutorials to help reinforce understanding.

This book brings together agricultural ethics scholars from the US, Japan and Taiwan to discuss crucial issues in agricultural ethics and sustainability ethics in comparative context. Agricultural ethics and sustainability ethics are wide-ranging and closely linked to environmental ethics, bioethics, virtue ethics, animal welfare, soil conservation, not to mention rural traditions and lifestyles. Six of the chapters cover historical traditions and values in Europe, the US and East Asia. Four of the chapters cover the role of virtue ethics in the analysis of agrarian and environmental ethics, agricultural biotechnology, food ethics, and alternative

agriculture, respectively. Finally, two of the chapters cover field efforts of agricultural ethics involving preserving agricultural heritage and building consensus for sustainable farming, respectively. Although the papers are divided into three groups, their contents are interconnected and mutually informative.

What constitutes animal welfare? With animals being used for companionship, service, research, food, fiber, and by-products, animal welfare is a topic of great interest and importance to society. As the world's population continues to increase, a major challenge for society is the maintenance of a strong and viable food system, which is linked to t
Comprehensive overview of key theoretical approaches and issues in the field.

In *Ontology and Closeness in Human-Nature Relationships*, Neil H. Kessler identifies the preconceptions which can keep the modern human mind in the dark about what is happening relationally between humans and the more-than-human world. He has written an accessible work of environmental philosophy, with a focus on the ontology of human-

nature relationships. In it, he contends that large-scale environmental problems are intimate and relational in origin. He also challenges the deeply embedded, modernist assumptions about the relational limitations of more-than-human beings, ones which place erroneous limitations on the possibilities for human-/more-than-human closeness. Diverging from the posthumanist literature and its frequent reliance on new materialist ontology, the arguments in the book attempt to sweep away what ecofeminists call "human/nature dualisms. In doing so, conceptual avenues open up that have the power to radically alter how we engage in our daily interactions with the more-than-human world all around us. Given the diversity of fields and disciplines focused on the human-nature relationship, the topics of this book vary quite broadly, but always converge at the nexus of what is possible between humans and more-than-human beings. The discussion interweaves the influence of human/nature dualisms with the limitations of Deleuzian becoming and posthumanism's new materialism and agential realism. It leverages in-

terhuman interdependence theory, Charles Peirce's synechism of feeling and various treatments of Theory of Mind while exploring the influence of human/nature dualisms on sustainability, place attachment, com-

mon worlds pedagogy, emergence, and critical animal studies. It also explores the implications of plant electrical activity, plant intelligence, and plant "neurobiology" for possibilities of relational capacities in plants while even grappling with theo-

ries of animism to challenge the animate/inanimate divide. The result is an engaging, novel treatment of human-nature relational ontology that will encourage the reader to look at the world in a whole new way.