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International Journal of Sustainable Development
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sustainable meat production and processing presents current solutions to promote industrial sustainability and best practices in meat production from postharvest to consumption the book acts as a guide for meat and animal scientists technologists engineers professionals and producers the 12 most trending topics of sustainable meat processing and meat by products management are included as are advances in ingredient and processing systems for meat products techno functional ingredients for meat products protein recovery from meat processing by products applications of blood proteins artificial meat production possible uses of processed slaughter co products and environmental considerations finally the book covers the preferred technologies for sustainable meat production natural antioxidants as additives in meat products and facilitators and barriers for foods containing meat co products analyzes the role of novel technologies for sustainable meat processing covers how to maintain sustainability and achieve high levels of meat quality and safety presents solutions to improve productivity and environmental sustainability takes a proteomic approach to characterize the biochemistry of meat quality defects

nicolette hahn niman sets out to debunk just about everything you think you know she s not trying to change your mind she s trying to save your world los angeles times elegant strongly argued the atlantic named a best food book as the meat industry from small scale ranchers and butchers to sprawling slaughterhouse operators responds to covid 19 the climate threat and the rise of plant based meats defending beef delivers a passionate argument for responsible meat production and consumption in an updated and expanded new edition for decades it has been nearly universal dogma among environmentalists that many forms of livestock goats sheep and others but especially cattle are public enemy number one they erode soils pollute air and water damage riparian areas and decimate wildlife populations as recently as 2019 a widely circulated green new deal fact sheet even highlighted the problem of farting cows but is the matter really so clear cut hardly in defending beef second edition environmental lawyer turned rancher nicolette hahn niman argues that cattle are not inherently bad for the earth the impact of grazing can be either negative or positive depending on how livestock are managed in fact with proper oversight livestock can play an essential role in maintaining grassland ecosystems by performing the same functions as the natural herbivores that once roamed and grazed there with more public discussions and media being paid to

connections between health and diet food and climate and climate and farming especially cattle farming defending beef has never been more timely and in this newly revised and updated edition the author also addresses the explosion in popularity of fake meat both highly processed plant based foods and meat grown from cells in a lab rather than on the hoof defending beef is simultaneously a book about big issues and the personal journey of the author who continues to fight for animal welfare and good science hahn niman shows how dispersed grass based smaller scale farms can and should become the basis of american food production creating healthful delicious food in ecological balance is among humanity s greatest challenges in this insightful book nicollette hahn niman shows why cattle on grass are an essential element every chef in america should read this book alice waters founder owner chez panisse and author of we are what we eat nicollette hahn niman just became beef s most articulate advocate in defending beef she pivots gracefully between the personal and the scientific the impassioned and the evenhanded it s a deeply compelling and delicious vision for the future of food dan barber author of the third plate

green meat takes a multifaceted approach to the issues of industrialized agricultural production and its relationship to climate change it argues that one singular solution to this problem would undermine the myriad of ways that meat is consumed across regional and cultural lines although meat may always be a global staple of the human diet it is not too late to re examine current food systems through the framework of sustainability and ecological prosperity alternatives journal

protein alternatives are crucial for a sustainable food production in future cultured meat is presented as a good alternative for consumers who want to be more sustainable but do not wish to change their diet to validate this sustainability claim this report evaluates four lca studies on cultured meat when comparing overall environmental impact of cultured meat with conventional meat products and other meat substitutes cultured meat was seen to perform significantly better than beef favourable to pork similar to chicken and worse than plant based alternatives considering current global average production impacts it is important to realize that currently no commercial scale cultured meat facility is operational all lca studies modelled a future facility extrapolating scientific and small scale facilities differences in system boundaries lead to high variability of environmental impact results for cultured meat among reviewed studies the lca system boundaries mostly include the cultivation related processes while product formulation and distribution are not taken into account an important technical bottleneck that is not addressed are the large volumes of the fermenters and the extended cultivation times which will need extraordinary sterility measures the lca overview shows that cultured meat production is energy intensive and that

energy consumption have the highest contribution in the overall impact next growth medium production showed significant contribution to impact especially the amino acid production and recombinant protein production for growth factors sensitivity analysis of model parameters showed that parameter choices on cell density and medium use impacted the results most technically the cultured meat industry is still very much in development obvious improvements that are needed are the reduction in energy development of scaffolds and lower medium cost specifically in developing cheaper plant based growth factors that are non gmo also product development is in its infancy cultured meat is part of a movement towards more sustainable meat alternatives that also includes plant based alternatives insects and microbial protein these sources should not be regarded as competition but as complementary products that target different types of consumers in combination with other meat alternatives cultured meat can lead to reduced production and consumption of conventional meat

this reference book is an igi global core reference for 2019 as it one of the best selling within the environmental agricultural and physical sciences subject area since 2015 winning the best in the world and best sustainable food book from the gourmand awards this title focuses on high quality research in developing a food culture that mitigates human and environmental damage featuring research on trending topics such as limiting meat consumption trade and the meat industry ethics of meat production and consumption and more this publication contains research that has been contributed by industry leading experts across australia u s uk and more making it a critical resource for policymakers academicians researchers advanced level students technology developers and government officials impact of meat consumption on health and environmental sustainability addresses the difficulties challenges and opportunities in reducing excessive meat consumption in order to mitigate human and environmental damage policymakers academicians researchers advanced level students technology developers and government officials will find this text useful in furthering their research exposure to pertinent topics such as dietary recommendations for limiting meat consumption trade and the meat industry ethics of meat production and consumption and the environmental impacts of meat consumption

social practice theories help to challenge the often hidden paradigms worldviews and values at the basis of many unsustainable practices discourses and their boundaries define what is seen as possible as well as the range of issues and their solutions by exploring the connections between practices and discourses minna kanerva develops a conceptual approach enabling purposive change in unsustainable social practices radical transformation towards new meatways is arguably necessary yet complex psychological ideological and power related mechanisms currently inhibit change

paul shapiro gives you a captivating john mackey former ceo of whole foods market front row seat for the race to create and commercialize cleaner safer sustainable meat real meat without the animals since the dawn of homo sapiens some quarter million years ago animals have satiated our species desire for meat but with a growing global population and demand for meat eggs dairy leather and more raising such massive numbers of farm animals is woefully inefficient and takes an enormous toll on the planet public health and certainly the animals themselves but what if we could have our meat and eat it too the next great scientific revolution is underway a future where the cellular agricultural revolution helps lower rates of foodborne illness greatly improves environmental sustainability and allows us to continue to enjoy the food we love kathleen sebelius former us secretary of health and human services enter clean meat real actual meat grown or brewed from animal cells as well as other clean foods that ditch animal cells altogether and are simply built from the molecule up whereas our ancestors domesticated wild animals into livestock today we re beginning to domesticate their cells leaving the animals out of the equation from one single cell of a cow you could feed an entire village and in this important book that could just save your life michael greger md author of how not to die the story of this coming second domestication is anything but tame

meat and dairy production and consumption are in crisis globally 70 billion farm animals are used for food production every year it is well accepted that livestock production is a major contributor to greenhouse gas emissions the food and agriculture organization of the united nations fao predicts a rough doubling of meat and milk consumption in the first half of the 21st century with particularly rapid growth occurring in the developing economies of asia what will this mean for the health and wellbeing of those animals of the people who consume ever larger quantities of animal products and for the health of the planet itself the new edition of this powerful and challenging book explores the impacts of the global growth in the production and consumption of meat and dairy including cultural and health factors and the implications of the likely intensification of farming for both small scale producers and for animals several chapters explore the related environmental issues from resource use of water cereals and soya to the impact of livestock production on global warming and issues concerning biodiversity land use and the impacts of different farming systems on the environment a final group of chapters addresses ethical and policy implications for the future of food and livestock production and consumption since the first edition published in 2010 all chapters have been updated three original chapters re written and six new chapters added with additional coverage of dietary effects of milk and meat antibiotics in animal production and the economic political and ethical dimensions of meat consumption the overall message is clearly that we must eat less meat to help secure a more sustainable and equitable world

food policy structural change in agriculture and analysis of food supply and demand trends in selected regions development of a method to analyze agro environmental changes in the typical food crop production area using geographic information system gis impact of new technologies on regional and farms economics evaluation of rice genetic resources development of novel rice breeding materials and their effective utilization varietal resistance to whitebacked planthopper in chinese japonica rice evaluation and utilization of soybean genetic resources in northeast china and development of novel soybean breeding materials using new technology evaluation and development of methods for sustainable agriculture and environmental conservation development of technologies for food processing and distribution development of techniques for producing animal feed from corn plants and their by products development of utilization technology of freshwater fisheries resources

first published in 1998 routledge is an imprint of taylor francis an informa company

this edited volume provides an innovative perspective on the future of food systems the contributors analyse relevant issues for a sustainable and responsible food consumption and cover fundamental steps for a broader approach to the sustainability of meat based products the book presents several issues and solutions to engage food firms in a measurable ecological transition topics discussed include not only the pedagogical perspective on sustainable food consumption the evolution of meat based food production systems and the animal welfare perspective but also the adaptation of firm s strategies to the sustainable transition the effects of climate change on agri food firms governance structures and the evolution of consumers perceptions on meat based products and the role of csr labels this book targets managers and entrepreneurs who work in the meat industry and are seeking to improve their socio environmental performance and governance accountants that works at the production of sustainability reports for food companies researchers working at the cutting edge of the food and environmental fields professionals working in the meat industry and researchers interested in the investigation of novelties in european food regulation

this book contains truths too important to dismiss too frightening to ignore joanna lumely actor and campaigner

recoge 1 background scope and methodology 2 broad trends in production and consumption 3 policies supporting scp 4 industry 5 food 6 buildings 7 transport 8 waste 9 way forward annex 1 responses to the questionnaire survey on policies on sustainable consumption and production

the growth of the global meat industry and the implications for climate change food insecurity workers rights the treatment of animals and other issues global meat production and consumption have risen sharply and steadily over the past five decades with per capita meat consumption almost doubling since 1960 the expanding global meat industry meanwhile driven by new trade policies and fueled by government subsidies is dominated by just a few corporate giants industrial farming the intensive production of animals and fish has spread across the globe millions of acres of land are now used for pastures feed crops and animal waste reservoirs drawing on concrete examples the contributors to global meat explore the implications of the rise of a global meat industry for a range of social and environmental issues including climate change clean water supplies hunger workers rights and the treatment of animals three themes emerge from their discussions the role of government and corporations in shaping the structure of the global meat industry the paradox of simultaneous rising meat production and greater food insecurity and the industry s contribution to social and environmental injustice contributors address such specific topics as the dramatic increase in pork production and consumption in china land management by small scale cattle farmers in the amazon the effect on the climate of rising greenhouse gas emissions from cattle raised for meat and the tensions between economic development and animal welfare contributors conner bailey robert m chiles celize christy riva c h denny carrie freshour philip h howard elizabeth ransom tom rudel mindi schneider nhuong tran bill winders

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