

Environment Ecology B Tech Pahrc

During the past 15 years, cellular and molecular approaches have emerged as valuable adjuncts to supplement and complement conventional breeding methods for a wide variety of crop plants. Biotechnology increasingly plays a role in the creation, conservation, characterization and utilization of genetic variability for germplasm enhancement. For instance, anther/microspore culture, somaclonal variation, embryo culture and somatic hybridization are being exploited for obtaining incremental improvement in the existing cultivars. In addition, genes that confer insect- and disease-resistance, abiotic stress tolerance, herbicide tolerance and quality traits have been isolated and re-introduced into otherwise sensitive or susceptible species by a variety of transgenic techniques. Together these transformative methodologies grant access to a greater repertoire of genetic diversity as the gene(s) may come from viruses, bacteria, fungi, insects, animals, human beings, unrelated plants or even be artificially derived. Remarkable achievements have been made in the production, characterization, field evaluation and commercialization of transgenic crop varieties worldwide. Likewise, significant advances have been made towards increasing crop yields, improving nutritional quality, enabling crops to be raised under adverse conditions and developing resistance to pests and diseases for sustaining global food and nutritional security. The overarching purpose of this 3-volume work is to summarize the history of crop improvement from a technological perspective but to do so with a forward outlook on further advancement and adaptability to a changing world. Our carefully chosen “case studies of important plant crops” intend to serve a diverse spectrum of audience looking for the right tools to tackle complicated local and global issues.

Fifty-seven Irish immigrant laborers arrived in the port of Philadelphia in June 1832 to work on Pennsylvania's Philadelphia and Columbia Railroad. Contractor Philip Duffy soon hired them to work a stretch of track in rural Chester County known as Duffy's Cut. They all perished within six weeks. For more than 180 years, the railroad maintained that cholera was to blame and kept the historical record under lock and key. In a harrowing modern-day excavation of their mass grave, a group of academics and volunteers found evidence some of the laborers were murdered. Authors and research leaders Dr. William E. Watson and Dr. J. Francis Watson reveal the tragedy, mystery and discovery of what really happened at Duffy's Cut.

In recent decades, historical geographers have left study of nature-culture interactions to others, most notably to environmental historians. This collection, written specially for this volume, reveals a renewed commitment by, and a rapidly accelerating research agenda for, historical geographers interested in environmental issues. Following an introductory literature review, each case study explores either the direct unplanned impact of humans on the natural

environment or the deliberate management policies designed to shape that impact. 'From their stronghold of applied historical geography, the contributors to this volume demonstrate the utility of the historical approach in the study and management of the environment. It hopefully signals a renewed interest in the field by workers whose lineage is from the human side of the continuum.' --Stanley W. Trimble, from the preface.

Employing a multidisciplinary methodology using history, sociology, and theology, Gillis describes and analyzes the experiences of Catholics in America from the seventeenth century to the present. With quotations from ordinary believers, theologians, historians, bishops, and other authorities woven throughout the book, he deftly explores the interplay between worldwide Catholicism and its diverse national and local expressions. In particular, Gillis elucidates the persistent tension between Rome and the American church, which has been shaped by a thoroughly modern, dynamic, and secular culture. Offering a wealth of information about church membership and ethnic and geographical makeup, the book explores how Catholic views on issues such as human life, abortion, poverty, and American culture have profoundly affected political and moral discourse in the United States. A chronology, glossary, profiles of prominent American Catholics, annotated bibliography, and a list of electronic resources are also included.

This volume provides an assessment of human rights-based approaches to development.

The US trade union movement finds itself on a global battlefield filled with landmines and littered with the bodies of various social movements and struggles. Candid, incisive, and accessible, this text is a critical examination of labour's crisis and a plan for a bold way forward into the 21st century.

Today Puerto Ricans are the largest single ethnic group in the city boroughs of the Archdiocese of New York. *Oxcart Catholicism on Fifth Avenue* presents a fascinating exploration and analysis of the Catholic church's efforts in New York City to meet the needs of migrant Puerto Ricans. Ana Maria Diaz-Stevens combines socio-historical methods and the insights of her personal participation in this process to create the first book-length assessment of this important event in twentieth-century American Catholic history. Diaz-Stevens begins by tracing the historical development of Catholicism in Puerto Rico, first under Spain and then after 1898 under the United States. She suggests the ways in which Puerto Ricans differed from the Irish, Italian, Polish, or other Catholic groups that came to New York. At the same time, she breaks new ground by describing significant differences between Puerto Ricans and Mexican-Americans in the practice of religion. After examining how institutional Catholicism in New York had grown from a loose mix of early nineteenth-century village parishes into a centralized cosmopolitan institution by the middle of the twentieth century, Diaz-Stevens presents a brief review of three historical periods of Puerto Rican migration to the city. She details the development of the "basement church" among Puerto Ricans as a specialized means of maintaining continuity with island traditions within a

big city environment. She also discusses key church leaders, such as Francis Cardinal Spellman, Ivan Illich, Robert Fox and Robert Stern, describing how their attempts to deal with a people who presented "problems" evolved into an innovative ministry to Puerto Ricans. In the process, the Spanish-speaking Apostolate moved beyond existing models of ethnic assimilation into a post-Vatican activism, oriented towards social and community needs.

Following his retirement from teaching in 1934, Edward Potts Cheyney was invited by the Trustees of the University of Pennsylvania to write a history of the University in celebration of its bicentennial. Cheyney completed the project, published as the present work, in 1940. This, then, is his history of the University of Pennsylvania from its founding to its bicentennial anniversary. A book on human rights training to enable the trainees to receive information and knowledge on human rights and humanitarian standards; acquire or reinforce skills through practice and application; and become sensitised by changing negative attitudes and reinforcing positive behaviour.

A Restatement of the English Law of Unjust Enrichment represents a wholly novel idea within English law. Designed to enhance understanding of the common law the Restatement comprises a set of clear succinct rules, fully explained by a supporting commentary, that sets out the law in England and Wales on unjust enrichment. Written by one of the leading authorities in the area, in collaboration with a group of senior judges, academics, and legal practitioners, the Restatement offers a powerfully persuasive statement of the law in this newly recognized and uncertain branch of English law. Many lawyers and students find unjust enrichment a particularly difficult area to master. Combining archaic terminology with an historic failure to provide a clear conceptual structure, the law remained obscure until its recent rapid development in the hands of pioneering judges and academics. The Restatement builds on the clarifications that have emerged in the case law and academic literature to present the best interpretation of the current state of the law. The Restatement will be accessible to, and of great practical benefit to, students, academics, judges, and lawyers alike as they work with this area of law. The text of the Restatement is supported by full commentary explaining its provisions and roots together with its application to real and hypothetical cases. The Restatement appears as European private law takes its first steps towards harmonization. In providing an accessible survey of the English law, the Restatement will offer an important reference point for the English position on unjust enrichment in the harmonization debates. Also appearing shortly after the United States Third Restatement on Restitution and Unjust Enrichment, this Restatement offers an interesting contrast with American law in this area.

An essential guide to the new face of electoral politics in America, this book provides an examination of the political mobilization of Latinos and Latinas through the churches and the influence of being of the Catholic faith, enabling an understanding of the social and cultural dynamics at play.

This book focuses on human rights education (HRE) in higher education, with an emphasis on supporting undergraduate education for social justice and global citizenship at the institutional, classroom, and community levels. Drawing from the work of human rights scholars and advocates at Webster University, Kingston begins a critical discussion about the potential of HRE on

college campuses and beyond. Chapter contributors address the institutional issues inherent to building a “human rights campus,” promoting just governance models, facilitating student research, and fostering inclusive campus communities. They further explore opportunities within the classroom by highlighting dynamic courses on global sustainable development and post-genocide reconciliation, as well as considering how to create trauma sensitive learning spaces and utilize photography as a human rights teaching tool. Finally, scholar-advocates detail how HRE can be expanded to include the broader community—including teaching critical criminology to aspiring police officers, facilitating community dialogue through academic conferences, and engaging in social justice work related to access to justice, domestic violence, and human trafficking.

Pathogenesis-Related Proteins and Their Roles in Resistance to Fungal Pathogens (Jayaraman Jayaraj, Ajith Anand, and Subbaratnam Muthukrishnan) Introduction Classification of PR Proteins Nondefense Functions of PR Proteins and PR-Like Proteins Natural and Synthetic Elicitors of PR-Protein Genes Mechanisms That Protect Pathogens from PR Proteins Transgenic Plants Expressing Single Genes for PR Proteins Transgenic Plants with Combinations of PR Proteins Conclusions Chapter 6. Induced Plant Resistance to Fungal Pathogens: Mechanisms and Practical Applications (Ray Hammerschmidt) Introduction Background Mechanisms of Induced Resistance to Fungal Pathogens The Application of Induced Resistance Transgenic Plants and Induced Resistance to Fungi Current Research Program on Induced Resistance in Cucumber Conclusions Chapter 7. Genetic Engineering of Plants to Enhance Resistance to Fungal Pathogens (Zamir K. Punja) Introduction Genetic Engineering Approaches Activation of Plant Defense Responses Resistance Genes (R Genes) Challenges Index Reference Notes Included.

The relationship of texts and maps, and the mappability of literature, examined from Homer to Houellebecq. Literary authors have frequently called on elements of cartography to ground fictional space, to visualize sites, and to help readers get their bearings in the imaginative world of the text. Today, the convergence of digital mapping and globalization has spurred a cartographic turn in literature. This book gathers leading scholars to consider the relationship of literature and cartography. Generously illustrated with full-color maps and visualizations, it offers the first systematic overview of an emerging approach to the study of literature. The literary map is not merely an illustrative guide but represents a set of relations and tensions that raise questions about representation, fiction, and space. Is literature even mappable? In exploring the cartographic components of literature, the contributors have not only brought literary theory to bear on the map but have also enriched the vocabulary and perspectives of literary studies with cartographic terms. After establishing the theoretical and methodological terrain, they trace important developments in the history of literary cartography, considering topics that include Homer and Joyce, Goethe and the representation of nature, and African cartographies. Finally, they consider cartographic genres that reveal the broader connections between texts and maps, discussing literary map genres in American literature and the coexistence of image and text in early maps. When cartographic aspirations outstripped factual knowledge, mapmakers turned to textual fictions. Contributors Jean-Marc Besse, Bruno Bosteels, Patrick M. Bray, Martin Brückner, Tom Conley, Jörg Dünne, Anders Engberg-Pedersen, John K. Noyes, Ricardo Padrón, Barbara Piatti, Simone Pinet, Clara Rowland, Oliver Simons, Robert Stockhammer, Dominic Thomas, Burkhardt

Wolf

Reflects how the dramatic transformations of Stockholm in late 1800s resulted in elements of the language being lost.

Now revised and updated to incorporate numerous new materials, this is the major source for researching American Christian activity in China, especially that of missions and missionaries. It provides a thorough introduction and guide to primary and secondary sources on Christian enterprises and individuals in China that are preserved in hundreds of libraries, archives, historical societies, headquarters of religious orders, and other repositories in the United States. It includes data from the beginnings of Christianity in China in the early eighth century through 1952, when American missionary activity in China virtually ceased. For this new edition, the institutional base has shifted from the Princeton Theological Seminary (Protestant) to the Ricci Institute for Chinese-Western Cultural Relations at the University of San Francisco (Jesuit), reflecting the ecumenical nature of this monumental undertaking.

Historical Geography, GIScience and Textual Analysis Landscapes of Time and Place Springer Nature

In most countries, girls are the most disadvantaged when it comes to school. Millions of young girls never attend school at all, millions more never complete their educ., & countless girls never receive the quality educ. that is their right. Yet, studies show that no tool for develop. is more effective than the educ. of girls. No other policy is as likely to raise econ. productivity; lower infant & maternal mortality, violence & abuse, sexual exploitation, & poverty; & improve nutrition & promote health -- incl. helping to prevent the spread of HIV/AIDS. Chapters: To Jump-Start Develop.; Educated Girls, a Uniquely Positive Force for Develop.; Girls Left Out, Countries Left Behind; The Multiplier Effect of Educating Girls; & What About Boys? Illustrations.

This book illustrates how literature, history and geographical analysis complement and enrich each other's disciplinary endeavors. The Hun-Lenox Globe, constructed in 1510, contains the Latin phrase 'Hic sunt dracones' ('Here be dragons'), warning sailors of the dangers of drifting into uncharted waters. Nearly half a millennium earlier, the practice of 'earth-writing' (geographia) emerged from the cloisters of the great library of Alexandria, as a discipline blending the twin pursuits of Strabo's poetic impression of places, and Herodotus' chronicles of events and cultures. Eratosthenes, a librarian at Alexandria, and the mathematician Ptolemy employed geometry as another language with which to pursue 'earth-writing'. From this ancient, East Mediterranean fount, the streams of literary perception, historical record and geographical analysis (phenomenological and Euclidean) found confluence. The aim of this collection is to recover such means and seek the fount of such rich waters, by exploring relations between historical geography, geographic information science (GIS) / geoscience, and textual analysis. The book discusses and illustrates current case studies, trends and discourses in European, American and Asian spheres, where historical geography is practiced in concert with human and physical applications of GIS (and the broader geosciences) and the analysis of text - broadly conceived as archival, literary, historical, cultural, climatic, scientific, digital, cinematic and media. Time as a multi-scaled concept (again, broadly conceived) is the pivot around which the interdisciplinary contributions to this volume revolve. In *The Landscape of Time* (2002) the historian John Lewis Gaddis posits: "What if we were to think of history as a kind of mapping?" He links the ancient practice of mapmaking with the three-part conception of time (past, present, and future). Gaddis presents the practices of cartography and historical narrative as attempts to manage infinitely complex subjects by imposing abstract grids to frame the phenomena being examined— longitude and latitude to frame landscapes and, occidental and oriental temporal scales to frame timescapes. Gaddis contends that if the past is a landscape and history is the way we represent it, then it follows that pattern recognition constitutes a primary form of human perception, one

that can be parsed empirically, statistically and phenomenologically. In turn, this volume reasons that literary, historical, cartographical, scientific, mathematical, and counterfactual narratives create their own spatio-temporal frames of reference. Confluences between the poetic and the positivistic; the empirical and the impressionistic; the epic and the episodic; and the chronologic and the chorologic, can be identified and studied by integrating practices in historical geography, GIScience / geoscience and textual analysis. As a result, new perceptions and insights, facilitating further avenues of scholarship into uncharted waters emerge. The various ways in which geographical, historical and textual perspectives are hermeneutically woven together in this volume illuminates the different methods with which to explore terrae incognitae of knowledge beyond the shores of their own separate disciplinary islands.

Histories of the Puerto Rican experience.

Professor Le Roy Ladurie is the leading exponent of the 'new' history of the French school. His achievement has set an example to historians in all other countries. As the diverse studies in this volume show, he has particularly revolutionised the study of population change, offering new techniques and posing new questions.

This book explores the interaction between two of the most charged topics in the modern world, religion and politics. It shows the inextricable connection between religious attitudes and representations, and political activities. After an introductory chapter explores theoretically the religious articulations of political power, the authors examine the role played by religion in the current political situation in several countries. Approaching these cases as anthropologists, historians, sociologists, and political scientists, the authors make visible the dialectical relationship between religion and the pursuit of political power—on the one hand, the political significance of religious choices, and on the other, the almost unavoidable need to articulate in religious terms a group's attempt to acquire, maintain, or expand political power.

The Road to Botany Bay, first published in 1987 and considered a classic in the field of cultural and historical geography, examines the poetic constitution of colonial society. Through a far-reaching exploration of Australia's mapping, narrative description, early urbanism, and bush mythology, Paul Carter exposes the mythopoetic mechanisms of empire. A powerfully written account of the ways in which language, history, and geography influenced the territorial theater of nineteenth-century imperialism, the book is also a call to think, write, and live differently.

Pierre Bourdieu was one of the most influential social theorists of our time. He developed a series of concepts to uncover the way society works and to challenge assumptions about what society is. His ideas illuminate how individuals and groups find value and meaning and so have rapidly come to be seen as hugely productive in analysing how religion works in society. 'Bourdieu on Religion' introduces students to Bourdieu's key concepts: cultural, social and symbolic capital; habitus and field; and his challenge to the structures of social inequality. This study will be invaluable to any student interested in the relationships between religion, class and social power.

As urbanization progresses at a remarkable pace, policy makers and analysts come to understand and agree on key features that will make this process more efficient and inclusive, leading to gains in the welfare of citizens. Drawing on insights from economic geography and two centuries of experience in developed countries, the World Bank's World Development Report 2009:

Reshaping Economic Geography emphasizes key aspects that are fundamental to ensuring an efficient rural-urban transformation. Critical among these are land, as the most important resource, and well-functioning land markets. Regardless of the stage of urbanization, flexible and forward-looking institutions that help the efficient functioning of land markets are the bedrock of successful urbanization strategies. In particular, institutional arrangements for allocating land rights and for managing and regulating land use have significant implications for how cities deliver agglomeration economies and improve the welfare of their residents. Property rights, well-functioning land markets, and the management and servicing of land required to accommodate urban expansion and provide trunk infrastructure are all topics that arise as regions progress from incipient urbanization to medium and high density.

Written from a geographical perspective, this book provides a new look at Ireland. Professor Evans contends that studies of heritage can assist the documentary historian in reaching a fuller understanding of the distinctive and continuing character of Irish history.

Little attention has been paid to the Latino movements of the 1960s and 1970s in the literature of social movements. This volume is the first significant look at the organizations that emerged in the late 1960s to promote Puerto Rican independence and the radical transformation of U.S. society. The Puerto Rican movement was a response to U.S. colonialism on the island and to the poverty and discrimination faced by most Puerto Ricans on the mainland. This anthology looks at the organizations that emerged to combat these two problems in such places as Boston, Chicago, Hartford, New York, and Philadelphia. Almost all the contributors worked with the organizations they describe. Interviews with such key figures as Elizam Escobar, Piri Thomas, and Luis Fuentes, as well as accounts by people active in the gay/lesbian, African American, and white Left movements, create a vivid picture of why and how people became radicalized and how their ideals intersected with their group's own dynamics.

Trevor M. Harris, Karen K. Kemp, Gary Lock, L. Jesse Rouse, and May Yuan. --Book Jacket.

This book, *Biotic Stress Management in Rice: Molecular Approaches*, addresses biotic stress of rice and its management through molecular approaches. It focuses on the biotechnological aspects of rice with the aim of reducing the fungicide and insecticides and ultimately ensuring safety of rice as a food as well as the environment. Rice is an important crop in much of the Asia-Pacific region, and there are a number of threats to rice production, including fungal, viral, and bacterial diseases and insect pests, both in temperate and tropical countries, which can cause the significant economic loss. Remarkable efforts are being made by scientists and breeders to raise rice productivity and safety by modifying and manipulating rice plants to survive under different types of stresses. The book provides an understanding of the genetic basis of resistance and susceptibility and goes on to present studies directed to understand the host-plant interaction in rice that have given rise to specialized breeding programs for resistance to diseases and insect-pests. In addition to these advancements in molecular breeding, marker-assisted selection and transgenic approaches open new ways to increase resistance in rice for better production under several biotic stresses. This book covers the most recent advancements and research strategies of molecular breeding, transgenic approaches, and other tools for effective biotic stress management in rice. This book should find a prominent place on the shelves of new plant breeders, biotechnologists, plant pathologists and entomologists working in academic and commercial rice research programs, and in the libraries of

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research establishments.

As agricultural production increases to meet the demands of a growing world population, so has the pace of biotechnology research to combat plant disease. Diseases can be caused by a variety of complex plant pathogens including fungi, bacteria, viruses and nematodes, and their management requires the use of techniques in transgenic technology, biochemistry and genetics. While texts exist on specific pathogens or management practices, a comprehensive review is needed of recent developments in modern techniques and the understanding of how pathogens cause disease. This collection of studies discusses the key approaches to managing each group of pathogens within the context of recent developments in biotechnology. Broad themes include microbe-plant interactions, molecular diagnostics of plant pathogens and enhancing the resistance of plants.

Collects essays about historical questions that can now be answered through geographic information systems, as well as the problems and limitations of using GIS technology.

Intended for educators, this book aims to build their skills and confidence as they educate for social change. Chapter 1 is about strategy--factors to consider before getting involved in an educational program. It discusses the importance of putting oneself as an educator into the picture and of analyzing the broader social context in which educators' work takes place. Chapter 2 draws from the authors' experience in designing educational events so they meet the objectives people bring to them. A discussion on planning an educational program concludes with a checklist for effective design. Chapter 3 focuses on educational activities with examples of some that have been found useful. Each activity has these components: why use it?, time it takes, what one needs, how it is done, variations, and source. Chapter 4 concerns facing the challenges of facilitating a group, making the most of who one is, and working through conflicting agendas. Chapter 5 looks back at some things the authors learned from past experiences. It examines the power relations inherent in learning situations and considers the question of how one might increase one's impact on the processes of social change. Chapter 6 looks forward to challenges of the 1990s--economic, political, social, and cultural and ideological. A postscript contains a discussion of the authors as they neared the end of the writing process and comments from colleagues who read the manuscript. The bibliography lists 45 publications. (YLB)

A Time 100 Must-Read Book of 2020 • A New York Times Book Review Editors' Choice • California Book Award Silver Medal in Nonfiction • Finalist for The New York Public Library Helen Bernstein Book Award for Excellence in Journalism • Named a top 30 must-read Book of 2020 by the New York Post • Named one of the 10 Best Business Books of 2020 by Fortune • Named A Must-Read Book of 2020 by Apartment Therapy • Runner-Up General Nonfiction: San Francisco Book Festival • A Planetizen Top Urban Planning Book of 2020 • Shortlisted for the Goddard Riverside Stephan Russo Book Prize for Social Justice "Tells the story of housing in all its complexity." —NPR Spacious and affordable homes used to be the hallmark of American prosperity. Today, however, punishing rents and the increasingly prohibitive cost of ownership have turned housing into the foremost symbol of inequality and an economy gone wrong. Nowhere is this more visible than in the San Francisco Bay Area, where fleets of private buses ferry software engineers past the tarp-and-plywood shanties of the homeless. The adage that California is a glimpse of the nation's future has become a cautionary tale. With propulsive storytelling and ground-level reporting, New York Times journalist Conor Dougherty chronicles America's housing crisis from its West Coast epicenter, peeling back the decades of history and economic forces that brought us here and taking readers inside the activist movements that have risen in tandem with housing costs.

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