

Science Philosophy And Physical Geography

This handbook is recognition of the need to better integrate physical and human geography. It combines a collection of work and research within the new field of Critical Physical Geography, which gives critical attention to relations of social power with deep knowledge of a particular field of biophysical science. Critical Physical Geography research accords careful attention to biophysical landscapes and the power relations that have increasingly come to shape them, and to the politics of environmental science and the role of biophysical inquiry in promoting social and environmental justice. The Palgrave Handbook of Critical Physical Geography lays out the scope and guiding principles of Critical Physical Geography research. It presents a carefully selected set of empirical work, demonstrating the range and intellectual strength of existing integrative work in geography research. This handbook is the first of its kind to cover this emerging discipline and will be of significant interest to students and academics across the fields of geography, the environment and sustainability.

Now in a fourth edition, this standard student reference has been totally revised and updated. It remains the definitive introduction to the history, philosophy, and methodology of human geography; now including a detailed explanation of key ideas in human geography's post-modernist and post-structuralist 'turns'. The book is organized into six sections: What is Geography?: an introduction to the discipline, and a

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discussion of its organization and basic research approaches, informed by the question 'what difference does it make to think geographically?' Foundations of Geography: an examination of geography from Antiquity to the 1950s, with a special focus on human/environment relation. Geography 1950-1980: a critical review of the development of geography as a spatial science. Paradigms and Revolutions: an analysis of paradigm shifts in geography, introducing students to key debates in the philosophy of science. Positivism and its Critics: a detailed discussion of positivism, critical theory, humanistic geography, behavioural geography, and structuralism. New Trends and Ideas developing critical responses: structuration theory, realism, post-structuralism, post-modernism, feminism and actor-network theory. This text explores complex ideas in an intelligible and accessible style. Illustrated throughout with research examples and explanations in text boxes, questions for discussion at the end of each chapter and a concept glossary, this is the essential student companion to the discipline.

Science, Philosophy and Physical Geography Routledge

"This book clearly outlines key concepts that all geographers should readily be able to explain. It does so in a highly accessible way. It is likely to be a text that my students will return to throughout their degree." - Dr Karen Parkhill, Bangor University "The editors have done a fantastic job. This second edition is really accessible to the student and provides the key literature in the key geographical terms of scale, space, time,

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place and landscape." - Dr Elias Symeonakis, Manchester Metropolitan University "An excellent introductory text for accessible overviews of key concepts across human and physical geography." - Professor Patrick Devine-Wright, Exeter University Including ten new chapters on nature, globalization, development and risk, and a new section on practicing geography, this is a completely revised and updated edition of the best-selling, standard student resource. *Key Concepts in Geography* explains the key terms - space, time, place, scale, landscape - that define the language of geography. It is unique in the reference literature as it provides in one volume concepts from both human geography and physical geography. Four introductory chapters on different intellectual traditions in geography situate and introduce the entries on the key concepts. Each entry then comprises a short definition, a summary of the principal arguments, a substantive 5,000-word discussion, the use of real-life examples, and annotated notes for further reading. Written in an accessible way by established figures in the discipline, the definitions provide thorough explanations of all the core concepts that undergraduates of geography must understand to complete their degree. The fifty entries in this Companion cover the main issues in the philosophies of historiography and history, including natural history and the practices of historians. Written by an international and multi-disciplinary group of experts A cutting-edge updated picture of current research in the field Part of the renowned Blackwell Companions series

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This book is intended as a philosophical introduction to geo-ontologies, in response to their increasing diffusion within the contemporary debate, where philosophy plays a fundamental, though still unexplored, role. Accordingly, the first part offers a short overview of the ontological background of geo-ontologies, which comprehends computer science, philosophy and geography. The second part is devoted to describe the ontology of geography, to define notions such as geographical entities and boundaries, and to trace some philosophical tools useful for spatial representation. The third part investigates the emerging of geo-ontologies from the spatial turn and is concerned with a taxonomy for geo-ontologies grounded on some fundamental geographical distinctions. Finally, the last part presents the emergence of Digital Humanities and the consequent proliferation of geographical projects focused on the ancient world, in particular Greek and Roman.

For courses in Earth Science, Physical Geology, Physical Geography, Earth System Science and Environmental Philosophy. This collection of essays by scholars in both the earth sciences and philosophy discusses the connections between the earth sciences and contemporary culture, and the changing role of the earth sciences in society.

The book charts out the history of Geographical Thought from early times to the present day in a single compact volume. Its main focus is on the modern period—beginning with Humboldt and Ritter—more specifically on conceptual

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developments since the Second World War. NEW TO THE SECOND EDITION

The second edition is thoroughly revised and incorporates five new chapters dealing with: ? Nature, Method, Basic Ideas and Conceptual Structure of Geography ? The Problem of Dualities and How it was Resolved ? Nature and Role of Geography as a Social Science—Geographical vs. Sociological Imagination ? Time vis-à-vis Space—The Pattern-Process Perspective in Geographic Research ? New Directions in the Twenty-First Century Human Geography TARGET AUDIENCE • BA/B.Sc. (Hons.) Geography • BA/B.Sc. (General) Geography • MA/M.Sc. Geography • Aspirants of Civil Services Perspectives on Kant's teachings on geography and how they relate his understanding of the world.

This accessible and engaging text explores the relationship between philosophy, science and physical geography. It addresses an imbalance that exists in opinion, teaching and to a lesser extent research, between a philosophically enriched human geography and a perceived philosophically empty physical geography. The text challenges the myth that there is a single self-evident scientific method that can, and is, applied in a straightforward manner by physical geographers. It demonstrates the variety of alternative philosophical perspectives and emphasizes the difference that the real world geographical context and the

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geographer make to the study of environmental phenomenon. This includes a consideration of the dynamic relationship between human and physical geography. Finally, the text demonstrates the relevance of philosophy for both an understanding of published material and for the design and implementation of studies in physical geography. This edition has been fully updated with two new chapters on field studies and modelling, as well as greater discussion of ethical issues and forms of explanation. The book explores key themes such as reconstructing environmental change, species interactions and fluvial geomorphology, and is complimented throughout with case studies to illustrate concepts.

The Place of Geography is designed to provide a readable and yet challenging account of the emergence of geography as an academic discipline. It has three particular aims: it seeks to trace the development of geography back to its formal roots in classical antiquity; provides an interpretation of the changes that have taken place in geographical practice within the context of Jurgen Habermas's critical theory; and thirdly, describes how the increasing separation of geography into physical and human parts has been detrimental to our understanding of critical issues concerning the relationship between people and environment.

Though Kant is best known for his strictly philosophical works in the 1780s, many

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of his early publications in particular were devoted to what we would call 'natural science'. Kant's *Universal Natural History and Theory of the Heavens* (1755) made a significant advance in cosmology, and he was also instrumental in establishing the newly emerging discipline of physical geography, lecturing on it for almost his entire career. In this volume Eric Watkins brings together new English translations of Kant's first publication, *Thoughts on the True Estimation of Living Forces* (1746–9), the entirety of *Physical Geography* (1802), a series of shorter essays, along with many of Kant's most important publications in natural science. The volume is rich in material for the student and the scholar, with extensive linguistic and explanatory notes, editorial introductions and a glossary of key terms.

Synthesizing complex theories, debates and information on nature this text explores the ways in which nature has been studied, emphasizing the relationships and differences between diverse branches of geography. Excerpt from *Introduction to the Science*, Vol. 1 The present volume, while calculated also for private and self-instruction, is chiefly designed to occupy that part of the attention of young persons at school, which has hitherto been devoted to the earliest of the usual series of Collections. Not less intelligible than the simplest of that class of school-books, it possesses the advantage of a definite

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and most important object, inasmuch as it presents a connected and systematic view of Nature. The sciences treated of are Astronomy - Natural Philosophy - Geology and Physical Geography - Meteorology - Electricity and Magnetism - Chemistry - Botany - Zoology - Human Physiology - and Mental Philosophy, upon each of which a series of questions is given at the end of the work. The amount of information on each is necessarily not great; but it has been the ambition of the writer that the information given should not be a superficial view of a few unconnected phenomena, but a chain of principles, calculated, in combination, to impress a distinct and comprehensive idea, and to make it possible that even those who leave school at the early age of ten, shall not go into the world without some knowledge of the parts of which it is composed, and the laws by which it is regulated. For the completion of a right elementary education, it is of course deemed necessary by the Editors, that each of the sciences here treated, besides several others, be studied separately, at least to the extent in which they are treated in the respective volumes of Chambers's Educational Course. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing

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imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

"A refreshingly innovative approach to charting geographical knowledge. A wide range of authors trace the social construction and contestation of geographical ideas through the sites of their production and their relational geographies of engagement. This creative and comprehensive book offers an extremely valuable tool to professionals and students alike." - Victoria Lawson, University of Washington

"A Handbook that recasts geograph's history in original, thought-provoking ways. Eschewing the usual chronological march through leading figures and big ideas, it looks at geography against the backdrop of the places and institutional contexts where it has been produced, and the social-cum-intellectual currents underlying some of its most important concepts." - Alexander B. Murphy, University of Oregon

The SAGE Handbook of Geographical Knowledge is a critical inquiry into how geography as a field of knowledge has been produced, re-produced, and re-imagined. It comprises three sections on geographical orientations, geography's venues, and critical geographical concepts and controversies. The first provides an overview of the genealogy of "geography". The second highlights the types of spatial settings and locations in which

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geographical knowledge has been produced. The third focuses on venues of primary importance in the historical geography of geographical thought. Orientations includes chapters on: Geography - the Genealogy of a Term; Geography's Narratives and Intellectual History Geography's Venues includes chapters on: Field; Laboratory; Observatory; Archive; Centre of Calculation; Mission Station; Battlefield; Museum; Public Sphere; Subaltern Space; Financial Space; Art Studio; Botanical/Zoological Gardens; Learned Societies Critical concepts and controversies - includes chapters on: Environmental Determinism; Region; Place; Nature and Culture; Development; Conservation; Geopolitics; Landscape; Time; Cycle of Erosion; Time; Gender; Race/Ethnicity; Social Class; Spatial Analysis; Glaciation; Ice Ages; Map; Climate Change; Urban/Rural. Comprehensive without claiming to be encyclopedic, textured and nuanced, this Handbook will be a key resource for all researchers with an interest in the pasts, presents and futures of geography.

Power, Knowledge and Geography is a uniquely accessible introduction to the most important debates in contemporary geography. Elegantly written and trenchantly expressed, it situates geographical enquiry within an invigorating political and intellectual landscape, and is organized around geography's own conceptual structure. In Part One, Derek Gregory examines the ways in which geographical enquiry relates to intellectual history, philosophy, science, and culture. He then considers how the wider political, social and institutional context of this enquiry may affect the ambitions,

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methods and content of both human and physical geography. In Part Two, he identifies a series of strategic geographical "sites" - conceptual locations where geographers have done some of their most characteristic work - and explores key moments in their development. Part Three isolates and reveals what the author argues are the most acute intellectual, social, and moral issues facing contemporary geographers, considers how they might be resolved, and outlines the impact of such resolutions on the theory, practice and study of the subject. Each chapter is richly illustrated with substantive examples, and contains capsule summaries of key terms, debates and figures. The book concludes with an annotated guide to further reading and a full index.

Robert Inkpen explores the relationship between philosophy, science & physical geography to address an imbalance that exists in opinion, teaching & to a lesser extent research, between a philosophically enriched human geography & a philosophically ignorant physical geography.

Seminar paper from the year 2015 in the subject Geography / Earth Science - Physical Geography, Geomorphology, Environmental Studies, grade: A, Lund University (The Department of Human Geography and the Human Ecology Division, Faculty of Social Sciences), course: SIMM23 – Theory of Science for the Social Sciences, language: English, abstract: In mainstream Western discourses, phenomena of environmental change such as climate change, loss of biodiversity or degradation of soils are often linguistically equated with value-laden terms such as 'environmental problems', or

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subsumed under titles such as 'environmental crisis'. Whereas these phenomena are widely researched and discussed in terms of their nature, their causes, their severity and potential solutions, the underlying assumption of this research and these discussions, namely the assumption that these phenomena are actually problematic and need to be averted, seems rarely to be considered. However, given the amount of research dedicated to phenomena of environmental change, it is crucial to investigate this assumption. This paper will discuss how different philosophy of science perspectives would deal with the question in how far phenomena of environmental change (such as climate change, loss of biodiversity, degradation of soils) are actually problematic. The perspectives that will be adopted are positivism, critical realism, social constructivism and feminism. The paper will be structured along the spectrum between realism and relativism on which positivism, critical realism and social constructivism can be located rather clearly. However, since “[t]here is no single feminist standpoint”, 'feminism' as such can not be unitarily placed on this spectrum. Therefore, the feminist perspective will not be discussed in a separate section like the other perspectives, but will be taken up wherever it can enrich another perspective in its approach to the question. To provide an understanding of feminism, feminism will be shortly outlined before getting into the discussion of the question.

Publisher: H.G. Bohn Publication date: 1850 Subjects: Science Physical geography Plant morphology South America Natural history Botany Nature / General Science /

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General Science / Life Sciences / Botany Science / Earth Sciences / Geography
Science / Philosophy

The central purpose of all research is to create new knowledge. In the geographical sciences this is driven by a desire to create new knowledge about the relations between space, place, and the anthropogenic and non-anthropogenic features and processes of the Earth. But some research goes beyond these modest aims and creates new opportunities for further research, or affects the process of knowledge acquisition more broadly, or changes the way other researchers in a domain think about the world and go about their business. Due to its positive impacts, transformative research can be regarded as inherently having greater value than more conventional research, and funding agencies clearly regard transformative research as something to be encouraged and funded through special programs. Assessments of transformative research funding initiatives are few and provide a mixed picture of their effectiveness. The challenge is whether transformative research can be identified at the time it is proposed rather than after it has been conducted, communicated, and its influence on the discipline has become clear. *Fostering Transformative Research in the Geographical Sciences* reviews how transformative research has emerged in the past, what its early markers were, and makes recommendations for how it can be nurtured in the future.

Over the past twenty years, geography as an academic discipline has become more

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and more reflective, asking the key questions 'What are we doing?' 'Why are we doing it?'. These questions have, so far, been more enthusiastically taken up by human geography rather than physical geography. Contemporary Meanings in Physical Geography aims to redress the balance. Written and edited by a distinguished group of physical geographers, Contemporary Meanings in Physical Geography comprises of a collection of international writer's thoughts which reveal personal motivations, and look at tensions in the worlds of meaning in which physical geography is involved. How are the meanings of the physical environment derived? Is the future of physical geography one where the only, or at least the dominant, meanings are framed in the contexts of environmental issues. Covering a diverse and lively selection of topics, the contributors of this book offer guides to the contemporary debates in the philosophy of physical geography, and introduce the reader to its wider cultural significance. This book is an essential companion to anyone studying, or with an interest in, physical geography. Modern Geography has come a long way from its historical roots in exploring foreign lands, and simply mapping and naming the regions of the world. Spanning both physical and human Geography, the discipline today is unique as a subject which can bridge the divide between the sciences and the humanities, and between the environment and our society. Using wide-ranging examples from global warming and oil, to urbanization and ethnicity, this Very Short Introduction paints a broad picture of the current state of Geography, its subject matter, concepts and methods, and its

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strengths and controversies. The book's conclusion is no less than a manifesto for Geography's future. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

The relationship between geography and philosophy is still largely in need of being explored. Geographers and philosophers share the responsibility for that. On the one hand, geographers have considered as a dangerous deviation any attempt to elaborate an image of the Earth which was not a mere replica of a cartographic representation. On the other hand, philosophers have generally been uninterested in a discipline offering little chance for critical reflection. In light of these considerations, the purpose of this book is to identify some fundamental philosophical issues involved in the reflection of geography by adopting a perspective which looks at the discipline with a specific focus on its fundamental concepts and distinctions.

This engaging and accessible introduction to geographic thought explores the major thinkers and key theoretical developments in the field of human geography. Covers the complete range of the development of theoretical knowledge of the field, from ancient geography to contemporary non-representational theory Presents theories in an accessible manner through the author's engaging writing style Examines the influence

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of Darwin and Marx, the emergence of anarchist geographies, the impact of feminism, and myriad other important bodies of thought Stresses the importance of geographic thought and its relevance to our understanding of what it is to be human, and to the people, places, and cultures of the world in which we live

Debates in Geography Education encourages student and practising teachers to engage with and reflect on key issues, concepts and debates in their specialist subject teaching. It aims to enable geography teachers to reach their own informed judgements and argue their point of view with deeper theoretical knowledge and understanding. Expert editors and contributors provide a balance of experience and perspectives and offer international, historical and policy contexts, evidence informed classroom debates and a glimpse of the subject's expanding horizons. Debates considered include: what constitutes knowledge in geography? constructing the curriculum; how do we link assessment to making progress in geography? the contribution of fieldwork and outdoor experiences; technology and media; how we use Geographical Information; how geography contributes to 'global learning'; sustainable development and geography education. The comprehensive, rigorous coverage of these key issues, together with carefully annotated selected further reading, reflective questions and a range of specific web-based resources, will help support shape your own research and writing. Debates in Geography Education is a source of knowledge, experience and debate that will be essential reading for all students studying at Masters level, practising teachers who

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want to develop a better understanding of the issues that shape their practice, and Education Studies students considering in-depth subject teaching.

"There is a growing unease among geographers with the notion of geography as spatial analysis but, as yet, no book has appeared which is able to assimilate and develop the profound methodological developments and changes in philosophy which have occurred since the sixties. Ideology, Science and Human Geography re-examines the nature of geography after the positivist revolution and provides a critique of the discipline from the perspective of the social sciences in general. For Gregory, the new geography's commitment to the paradigms of natural science was simply a reaffirmation of the Victorian tradition of geography. The ideological consequences of this are discussed in relation to recent changes in the social sciences to argue that a scientific geography must provide explanations which are at once structural, reflexive and committed. In questioning many of the assumptions of quantitative methodology the book seeks, above all, to reinstate man into the study of geography." -- Publisher's description

Excerpt from Natural Philosophy, Vol. 3: Astronomy, History of Astronomy, Mathematical Geography, Physical Geography, and Navigation; With an Explanation of Scientific Terms and an Index IN presenting to the public this third and concluding volume of Natural Philosophy, it seems requisite to od'er a few remarks concerning the plan adopted for the arrangement of the originally disjointed portions. To those who

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would have wished that it had been more systematic, it may be observed that the several Treatises were composed so that the subjects might, as much as possible, be individually perfect, and independent of one another; and this necessarily tended, not only to occasion repetitions when collected into volumes, but, in some degree, to break the thread which would have united them in one general science. The object of Natural Philosophy is the investigation of those principles which are to be considered as inherent in matter, and by the agency of which the changes in the relative positions, modifications, and internal combinations of the several masses (or separate bodies) are produced. These are. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

This ism-busting text is an enormously accessible account of the key philosophical and theoretical ideas that have informed geographical research. It makes abstract ideas explicit and clearly connects it with real practices of geographical research and knowledge. Written with flair and passion, A Student's Introduction to Geographical

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Thought: Explains the key ideas: scientific realism, anti-realism and idealism / positivism / critical rationalism / Marxism and critical realism/ social constructionism and feminism / phenomenology and post-phenomenology / postmodernism and post-structuralism / complexity / moral philosophy. Uses examples that address both physical geography and human geography. Use a familiar and real-world example - 'the beach' - as an entry point to basic questions of philosophy, returning to this to illustrate and to explain the links between philosophy, theory, and methodology. All chapters end with summaries and sources of further reading, a glossary explaining key terms, exercises with commentaries, and web resources of key articles from the journals Progress in Human Geography and Progress in Physical Geography. A Student's Introduction to Geographical Thought is a completely accessible student A-Z of theory and practice for both human and physical geography.

This book provides undergraduates with a step-by-step guide to successfully carrying out an independent research project or dissertation. The book addresses each stage of the project by answering the questions that a student is likely to ask as the work progresses from choosing the subject area and planning the data collection through to producing illustrations and writing the final report. Most undergraduates in geography and related disciplines are required to undertake individual projects as part of their degree course; this book is a source of constructive, practical advice. This new third edition continues the tradition of friendly, well-informed but informal support, and

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continues to focus on answering the specific questions that students typically ask at each stage of the project. The new edition brings the text completely up to date by taking into account changes within the discipline and changes in the ways that students work. New digital media, social networking, mobile technology, e-journals, anti-plagiarism software, ethics approval rules and risk assessments are among the issues that this new edition takes into account. The new edition also broadens the book's appeal by extending its coverage of the wide range of different approaches to geographical research, with expanded coverage of qualitative research, Geographic Information Systems, and new approaches to research design in both physical and human geographies

This book is a study of the emergence of the geographic paradigm in modern Western thought around 1800.

This anthology aims to present the fundamental philosophical issues and tools required by the reflection within and upon geography and Geographic Information Systems (GIS) . It is an introduction to the philosophy for GIScience from an analytical perspective, which looks at GIS with a specific focus on its fundamental and most general concepts and distinctions. The first part of the book is devoted to explore some of the main philosophical questions arising from GIS and GIScience, which include, among others, investigations in ontology, epistemology, linguistics and geometrical modeling. The second part concerns issues related to spatial and cartographical representations of the

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geographical world. The third part is focused on the ontology of geography, specifically in terms of geographical entities, objects and boundaries. Finally, in the fourth part, the topic of GIS constitutes a starting point for exploring themes such as quantum geography and disorientation, and for defining professional profiles for geographers with competences in GIS environment. This book on a new and unexplored field of research could be a fundamental point of reference for professional philosophers and geographers interested in the theoretical reflection about the foundational concepts of GIScience. It is also interesting reading material for students (both undergraduates, postgraduates and Ph.D. students) in philosophy, geography, applied ontology, GIScience, geomatics and computer science.

The paradigm and models of traditional soil science lack the ability to adequately address issues of soil dynamics, environmental integration, and change. Unexplainable research results obtained from traditional soil studies applied to non-traditional soil phenomena in physical geography, archaeology and ecology speak to the current need for soil science to move beyond description and classification and into a dynamic process-oriented soil science capable of providing explanations. Soils do not behave as static inert geologic detritus affected by climate, organisms, relief, and parent material through time, but instead soils behave as self-organizing systems dynamically interrelating with their environment. Recognition of this dynamic behaviour required a re-examination of how scientists in general think and in how modern soil science

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specifically evolved its basic paradigms and models. This book examines the dynamics of soil organic carbon and demonstrates the self-organizing nature of soil through time as soil responds to a wide range of environmental and human perturbations. Makes soil science accessible to a wider audience by integrating soil science with biology, geography and archaeology Demonstrates universal application by including case studies from around the world Avoids pitfalls of determinism and vitalism by being well founded in the philosophy of science

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