

Principles Of Conservation Biology 2nd Edition

"This is the first comprehensive treatment of the biology of the Monstersauria in nearly 50 years, during which time our knowledge has increased dramatically. It gives the reader an unprecedented opportunity to understand the evolution, ecology, and behavior of gila monsters and beaded lizards, as well as insights into folklore, venom, and threats to the existence of these fabled animals."--William Cooper, Indiana University-Purdue University at Fort Wayne "Beck is the foremost authority on these animals and has published extensively on them. He provides a highly readable and fascinating summary of their biology."--Jonathan Campbell, author of *Venomous Reptiles of Latin America*

Reflecting what a new generation of conservation biologists is doing and thinking, this vital and far ranging second edition explores where conservation biology is heading. It challenges many conventions of conservation biology by exposing certain weaknesses of widely accepted principles. Combining contributions from both the school and the new breed of conservation biologists, this insightful text focuses primarily on topics that are integral to the daily activities of conservation biologists. Several chapters address ecosystem restoration and biotic invasions as well as the mechanics of population viability analyses, which are now a routine facet of conservation efforts. A case history approach is implemented throughout the book, with the use of practical real-world examples. Furthermore, an in-depth look at quantitative analyses is presented, allowing for models and mathematical analyses to pinpoint limitations in existing data and guide research toward those aspects of biology that are most likely to be critical to the dynamics of a species or an ecosystem.

These proceedings contain papers on insect conservation biology that are classified under 3 themes: (1) the current status of insect conservation, and major avenues for progress and hindrances (6 papers); (2) insects as model organisms in conservation biology (6 papers); and (3) future directions in insect conservation biology (6 papers). The importance of conservation is growing each year, with increasing concerns over the destruction of biodiversity and the rising awareness of ecosystem services generating new debates on the human-nature relationship. This compact overview integrates the process, theory and practice of conservation for a broad readership, from non-specialists to students and practitioners. Taking a global perspective, it uses examples from around the world to illustrate general themes and show how problems arise from the impact of societal trends on ecological communities. A significant practical component will be particularly valuable for environmental professionals, outlining the requirements for rigorous surveys, biodiversity valuation, the assessment of impact and its mitigation. Thoroughly revised and updated, this second edition reflects trends towards embracing multiple disciplines, considering the links between ecology and the social sciences and bringing conservation to the heart of sustainability and environmental policy.

This impressive author team brings the wealth of advances in conservation genetics into the new edition of this introductory text, including new chapters on population genomics and genetic issues in introduced and invasive species. They continue the strong learning features for students - main points in the margin, chapter summaries, vital support with the mathematics, and further reading - and now guide the reader to software and databases. Many new references reflect the expansion of this field. With examples from mammals, birds,...

Completely revised, the 3rd edition of this textbook has been expanded to emphasise both terrestrial and marine conservation issues as well as efforts in the US and across the globe.

In the new edition of this highly successful book, Malcolm Hunter and new co-author James Gibbs offer a thorough introduction to the fascinating and important field of conservation biology, focusing on what can be done to maintain biodiversity through management of ecosystems and populations. Starting with a succinct look at conservation and biodiversity, this book progresses to contend with some of the subject's most complex topics, such as mass extinctions, ecosystem degradation, and over exploitation. Discusses social, political, and economic aspects of conservation biology. Thoroughly revised with over six hundred new references and web links to many of the organizations involved in conservation biology, striking photographs and maps. Artwork from the book is available to instructors online at www.blackwellpublishing.com/hunter and by request on CD-ROM.

Corridor Ecology presents guidelines that combine conservation science and practical experience for maintaining, enhancing, and creating connectivity between natural areas with an overarching goal of conserving biodiversity. It offers an objective, carefully interpreted review of the issues and is a one-of-a-kind resource for scientists, landscape architects, planners, land managers, decision-makers, and all those working to protect and restore landscapes and species diversity.

Hanski, a leading thinker in metapopulation ecology, studies checkerspot butterfly populations in Finland. Ehrlich, one of the leading ecologists and conservation biologist, investigates checkerspot butterfly populations in California. This book reports on and synthesizes the major long-term research of both workers' careers on the population biology of checkerspot butterflies.

The population of the Persian leopard (*Panthera pardus saxicolor*) has drastically declined; this Asian leopard subspecies has disappeared from some parts of its former range. Containing large areas of potential habitats with leopard presence across almost all of its provinces, Iran is known to be the last stronghold for the Persian leopard in the region. This book comprehensively covers research, management and conservation practices of the Persian leopard, including:

- The first phase of the Persian Leopard National Action Plan in Iran together with an innovative leopard insurance program and a contingent valuation practice with respect to the wildlife trafficking law enforcement in Iran
- Research on a hypothesis about the risk of a major fragmentation and splitting the leopard distribution range in Iran into a northern and a southern parts
- An innovative and empirically fitted species- and region-specific approach for assessing the cumulative effect of land use and land cover changes on the leopard persistence
- Distribution modeling of leopard potential habitats on a regional basis, accompanied by ground validation techniques
- An evaluation to three threshold rules to define the habitat suitability indices

· Persian leopard habitats and relative corridors in the trans-boundary areas of the East Azarbaijan province of the northwest of Iran in the Caucasus Ecoregion. The innovative research and conservation approaches presented in this book will be of great interest to those studying the leopard and other large carnivore species. The innovative models presented in this book about cumulative effect of the land use and land cover changes will be beneficial to land use managers, planners and decision makers in selecting wildlife friendly solutions for development programs. The strategic and action planning model as well as the leopard compensation program as an insurance scheme are developed specifically for the local condition and leopard status in Iran.

How are greenways designed? What situations lead to their genesis, and what examples best illustrate their potential for enhancing communities and the environment? Designing greenways is a key to protecting landscapes, allowing wildlife to move freely, and finding appropriate ways to bring people into nature. This book brings together examples from ecology, conservation biology, aquatic ecology, and recreation design to illustrate how greenways function and add value to ecosystems and human communities alike. Encompassing everything from urban trail corridors to river floodplains to wilderness-like linkages, greenways preserve or improve the integrity of the landscape, not only by stemming the loss of natural features, but also by engendering new natural and social functions. From 19th-century parks and parkways to projects still on the drawing boards, *Designing Greenways* is a fascinating introduction to the possibilities-and pitfalls-involved in these ambitious projects. As towns and cities look to greenways as a new way of reconciling man and nature, designers and planners will look to *Designing Greenways* as an invaluable compendium of best practices.

Improving the dynamic relationship between nature and human well-being is a pressing issue of our time. Landscapes embody this tight interconnectedness and serve as unique sustainability learning hubs, showcased by the global rise of place-based and holistic landscape stewardship initiatives. Incorporating these exciting developments, this book explores the principles of landscape stewardship and their function in fields such as agriculture, ecological restoration and urban green infrastructure. It provides insights into the challenges and the potential of landscape stewardship and identifies future paths for the science and practice of landscape-related sustainability efforts. Aligning analytical perspectives with practical applications, it brings together contributions from leading scholars and innovative models of landscape stewardship from all around the world, making it an essential resource for anyone interested in developing sustainable human-nature relationships.

Wildlife species across the globe face a dire predicament as their traditional migratory routes are cut off by human encroachment and they are forced into smaller and smaller patches of habitat. As key species populations dwindle, ecosystems lose resilience and face collapse, and along with them, the ecosystem services we depend on. Healthy ecosystems need healthy wildlife populations. One possible answer? Wildlife corridors that connect fragmented landscapes. This second edition of *Corridor Ecology: Linking Landscapes for Biodiversity Conservation and Climate Adaptation* captures advances in the field over the past ten years. It features a new chapter on marine corridors and the effects of climate change on habitat, as well as a discussion of corridors in the air for migrating flying species. Practitioners, land managers, and scholars of ecology will find it an indispensable resource.

Continental Conservation provides conservationists and biologists with the latest scientific principles for protecting living nature at spatial scales that encompass entire regions and continents. *Continental Conservation* is an important guide book that can serve a vital role in helping fashion a radically honest scientifically rigorous land-use agenda. It will be required reading for scientists and professionals at all levels involved with ecosystem and land management.

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The *Encyclopedia of Ecology and Environmental Management* addresses the core definitions and issues in pure and applied ecology. It is neither a short entry dictionary nor a long entry encyclopedia, but lies somewhere in between. The mixture of short entry definitions and long entry essays gives a comprehensive and up-to-date alphabetical guide to over 3000 topics, and allows any subject to be accessed to varying levels of detail; while the longer entries provide general reviews of subjects, the short definitions provide specific details on more specialised areas. An important feature of the *Encyclopedia* which sets it apart from other similar works is the comprehensive cross-referencing. The most comprehensive and up-to-date reference work in pure and applied ecology. Definitions cover the entire spectrum of pure and applied ecological research. Distinguished editorial board: Dr Peter Moore, Professor John Grace, Professor Bryan Shorrocks, Professor Steven Stearns, Professor Don Falk. International team of distinguished authors - over 200 contributors from 20 countries. 3000 headwords defined. Over 250 long entries review major topics. Heavily illustrated, with a section of colour plates. Complete one volume guide to pure and applied ecology. Presents cutting edge definitions in emerging fields as well as grounding in well-established areas of ecology.

See publisher description:

While most efforts at biodiversity conservation have focused primarily on protected areas and reserves, the unprotected lands surrounding those areas--the "matrix"--are equally important to preserving global biodiversity and maintaining forest health. In *Conserving Forest Biodiversity*, leading forest scientists David B. Lindenmayer and Jerry F. Franklin argue that the conservation of forest biodiversity requires a comprehensive and multiscaled approach that includes both reserve and nonreserve areas. They lay the foundations for such a strategy, bringing together the latest scientific information on landscape ecology, forestry, conservation biology, and related disciplines as they examine the importance of the matrix in key areas of ecology such as metapopulation dynamics, habitat fragmentation, and landscape connectivity. General principles for matrix management using natural disturbance regimes to guide human disturbance. Landscape-level and stand-level elements of matrix management. The role of adaptive management and monitoring. Social dimensions and tensions in implementing matrix-based forest management. In addition, they present five case studies that illustrate aspects and elements of applied matrix management in forests. The case studies cover a wide variety of conservation planning and management issues from North America, South America, and Australia, ranging from relatively intact forest ecosystems to an intensively managed plantation. *Conserving Forest Biodiversity* presents strategies for enhancing matrix management that can play a vital role in the development of more effective approaches to maintaining forest biodiversity. It examines the key issues and gives practical guidelines for sustained forest management, highlighting the critical role of the matrix for scientists, managers, decisionmakers, and other stakeholders involved in efforts to sustain biodiversity and ecosystem processes in forest landscapes.

Wildlife Management and Conservation presents a clear overview of the management and conservation of animals, their habitats, and how people influence both. The relationship among these three components of wildlife management is explained in chapters written by leading experts and is designed to prepare wildlife students for careers in which they will be charged with maintaining healthy animal populations; finding ways to restore depleted populations while reducing overabundant, introduced, or pest species; and managing relationships among various human stakeholders. Topics covered in this book include

- The definitions of wildlife and management
- Human dimensions of wildlife management
- Animal behavior
- Predator-prey relationships
- Structured decision making
- Issues of scale in wildlife management
- Wildlife health
- Historical context of wildlife management and conservation
- Hunting and trapping
- Nongame species
- Nutrition ecology
- Water management
- Climate change

Conservation planning

Combines theory and research findings to explain links between conservation biology and environmental economics, ethics, law and the social sciences. The author stresses that people and governments can

all contribute to protecting biological diversity and promote sustainable development.

Conservation Biology for All provides cutting-edge but basic conservation science to a global readership. A series of authoritative chapters have been written by the top names in conservation biology with the principal aim of disseminating cutting-edge conservation knowledge as widely as possible. Important topics such as balancing conservation and human needs, climate change, conservation planning, designing and analyzing conservation research, ecosystem services, endangered species management, extinctions, fire, habitat loss, and invasive species are covered. Numerous textboxes describing additional relevant material or case studies are also included. The global biodiversity crisis is now unstoppable; what can be saved in the developing world will require an educated constituency in both the developing and developed world. Habitat loss is particularly acute in developing countries, which is of special concern because it tends to be these locations where the greatest species diversity and richest centres of endemism are to be found. Sadly, developing world conservation scientists have found it difficult to access an authoritative textbook, which is particularly ironic since it is these countries where the potential benefits of knowledge application are greatest. There is now an urgent need to educate the next generation of scientists in developing countries, so that they are in a better position to protect their natural resources.

The second edition of Wildlife Ecology, Conservation, and Management provides a thorough introduction to general ecological principles and examines how they can be applied to wildlife management and conservation. Expanded and updated, this second edition includes new chapters on understanding ecosystems and the use of computer models in wildlife management. Gives a comprehensive, up-to-date overview of ecology including the latest theories on population dynamics and conservation. Reviews practical applications and techniques and how these can be used to formulate realistic objectives within an ecological framework. Examples of real-life management situations from around the world provide a broad perspective on the international problems of conservation. Worked examples on CD enable students to practice calculations explained in the text. Artwork from the book is available to instructors online at www.blackwellpublishing.com/sinclair. An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at HigherEducation@wiley.com for more information. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Essential reading for undergraduate students of conservation biology and living natural resource management.

This text provides a synthesis of the existing field of wetland ecology using a few central themes, including key environmental factors that produce wetland community types and some unifying problems such as assembly rules, restoration and conservation.

This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Tropical environments cover the most part of still preserved natural areas of the Earth. The greatest biodiversity, as in terms of animals and plants, as microorganisms, is placed in these hot and rainy ecosystems spread up and below the Equator line. Additionally, the most part of food products, with vegetal or animal origin, that sustain nowadays human beings is direct or undirected dependent of tropical productivity. Biodiversity should be looked at and evaluated not only in terms of numbers of species, but also in terms of the diversity of interactions among distinct organisms that it maintains. In this sense, the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth. In the chemicals of tropical plant and animals, could be the cure to infinite number of diseases, new food sources, and who knows what more. Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men. Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line. Nowadays, is estimated that due human exploitation, nation conflicts and social problems, less than 8% of tropical nature inside continental areas is still now untouchable. The extension of damage in the tropical areas of oceans is unknown. Thus so, all knowledge we could accumulate about tropical systems will help us, as in the preservations of these important and threatened ecosystems as in a future recuperation, when it was possible. Only knowing the past and developing culture, mainly that directed to peace, to a better relationship among nations and responsible use and preservation of natural resources, human beings will have a long future on Earth. These volumes, Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia. Like we work with life, we intended to transform this encyclopedia also in a "life" volume, in what new information could be added in any time. As president of the encyclopedia and main editor I opened the theme with an article titled: "Tropical Biology and Natural resources: Historical Pathways and Perspectives", providing the reader an initial view of the origins of human knowledge about the tropical life, and what we hope to the future. In the sequence we have more than 100 chapters distributed in ten sessions: Tropical Ecology (TE); Tropical Botany (TB); Tropical Zoology (TZ); Savannah Ecosystems (SE); Desert Ecosystems (DE); Tropical Agriculture (TA); Natural History of Tropical Plants (NH); Human Impact on Tropical Ecosystems (HI); Tropical Phytopathology and Entomology (TPE); Case Studies (CS). This 11-volume set contains several chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Tropical Biology and Conservation Management and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

This is a comprehensive textbook for A-level students and first-year undergraduates taking courses in biology, geography and Earth sciences.

Conservation and the Genetics of Populations gives a comprehensive overview of the essential background, concepts, and tools needed to understand how genetic information can be used to develop conservation plans for species threatened with extinction. Provides a thorough understanding of the genetic basis of biological problems in conservation. Uses a balance of data and theory, and basic and applied research, with examples taken from both the animal and plant kingdoms. An associated website contains example data sets and software programs to illustrate population genetic processes and methods of data analysis. Discussion questions and problems are included at the end of each chapter to aid understanding. Features Guest Boxes written by leading people in the field including James F. Crow, Nancy FitzSimmons, Robert C. Lacy, Michael W. Nachman, Michael E.

Soule, Andrea Taylor, Loren H. Rieseberg, R.C. Vrijenhoek, Lisette Waits, Robin S. Waples and Andrew Young. Supplementary information designed to support Conservation and the Genetics of Populations including: Downloadable sample chapter Answers to questions and problems Data sets illustrating problems from the book Data analysis software programs Website links An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at HigherEducation@wiley.com for more information.

Bats are highly charismatic and popular animals that are not only fascinating in their own right, but illustrate most of the topical and important concepts and issues in mammalian biology. This book covers the key aspects of bat biology, including evolution, flight, echolocation, hibernation, reproduction, feeding and roosting ecology, social behaviour, migration, population and community ecology, biogeography, and conservation. This new edition is fully updated and greatly expanded throughout, maintaining the depth and scientific rigour of the first edition. It is written with infectious enthusiasm, and beautifully illustrated with drawings and colour photographs.

As conservationists, ranchers, and forest workers join together to protect the wide open spaces, diverse habitats, and working landscapes upon which people, plants, and animals depend, a new vision of management is emerging in which the conservation of biodiversity, ecosystem integrity, and sustainable resource use are seen not as antithetical, but as compatible, even symbiotic goals. This book explores that expanded, inclusive vision of environmentalism as it delves into the history and evolution of Western land use policy and of the working landscapes themselves.

Principles of Conservation Biology Ingram

Fred Van Dyke's new textbook, *Conservation Biology: Foundations, Concepts, Applications*, 2nd Edition, represents a major new text for anyone interested in conservation. Drawing on his vast experience, Van Dyke's organizational clarity and readable style make this book an invaluable resource for students in conservation around the globe. Presenting key information and well-selected examples, this student-friendly volume carefully integrates the science of conservation biology with its implications for ethics, law, policy and economics.

The Oxford Handbook of Interdisciplinarity provides a synoptic account of the current state of interdisciplinary research, education, and administration—knowledge that spans the disciplines, and crosses the space between the academic community and society at large. Its 36 chapters and 14 case studies provide a snapshot of the state of knowledge integration as interdisciplinarity approaches its century mark.

This book provides a current synthesis of principles and applications in landscape ecology and conservation biology. Bringing together insights from leaders in landscape ecology and conservation biology, it explains how principles of landscape ecology can help us understand, manage and maintain biodiversity. Gutzwiller also identifies gaps in current knowledge and provides research approaches to fill those voids.

Now is the time for conservation science—a mission-oriented scientific enterprise that seeks to protect nature, including Earth's animals, plants, and ecosystems, in the face of unprecedented human demands upon the planet. Conservation scientists apply principles from ecology, population genetics, economics, political science, and other natural and social sciences to manage and preserve nature. The focus of this textbook is first and foremost on protecting nature and especially Earth's biota. It also contains a heavy emphasis on highlighting strategies to better connect the practice of conservation with the needs and priorities of a growing human population. Now used at over 150 colleges and universities, *Conservation Science* is an original and modern approach to conservation. *Conservation Science* was primarily written for undergraduates and beginning graduate students who are interested either in academic careers or working in conservation at government agencies, non-governmental organizations, or international institutions.

In 1970 Earth Day was first celebrated marking the dawn of worldwide environmental consciousness and the passing of many environmental laws. In part, these events were the result of the maturing of the science of ecology which recognized the interdependence of the web and cycles of nature. This volume explores the relationship between ecology and environmental law, beginning with a description of the two very different disciplines. This description is followed by a history of their episodic interactions: the early period of origin, the mid-century formative period from 1950 to 1970, the initial serious period of interaction after Earth Day in 1970 and the testing of the relationship during the next two decades. Utilizing a number of case studies, examinations of the key 'linkage persons', legal instruments and the migration of ecological concepts and frameworks, this book analyzes the final flowering of an ecosystem regime which embraces the connections between the two disciplines of ecology and environmental law. Concluding with an inventory of the problems posed by the relationship between the two disciplines and an agenda for future research, this clearly structured, comprehensive and stringent book is an essential resource for all serious scholars and students of ecology and environmental law. Anyone working in biodiversity conservation or field ecology should understand and utilize the common-sense process of scientific inquiry: observing surroundings, framing questions, answering those questions through well-designed studies, and, in many cases, applying results to decision making. Yet the interdisciplinary nature of conservation means that many workers are not well versed in the methods of science and may misunderstand or mistrust this indispensable tool. *Designing Field Studies for Biodiversity Conservation* addresses that problem by offering a comprehensible, practical guide to using scientific inquiry in conservation work. In an engaging and accessible style, award-winning tropical ecologist and teacher Peter Feinsinger melds concepts, methods, and intellectual tools into a unique approach to answering environmental questions through field studies. Focusing on the fundamentals of common sense, independent thinking, and natural history, he considers: framing the question and designing the study interpreting and applying results through judicious use of statistical inference taking into account the natural history of plants, animals, and landscapes monitoring and assessing progress through approaches such as "bioindicator species" or "species diversity measures" helping other interested parties (park guards, local communities, school teachers) use scientific inquiry in addressing their own concerns Detailed appendixes explain technical issues, while numerous sidebars and illustrations provide important background and thought-provoking exercises. Throughout, the author challenges the reader to integrate conceptual thinking with on-the-ground

practice in order to make conservation truly effective. Feinsinger concentrates on examples from Latin America but stresses that the approach applies to local conservation concerns or field biology questions in any landscape. *Designing Field Studies for Biodiversity Conservation* is an essential handbook for staff and researchers working with conservation institutions or projects worldwide, as well as for students and professionals in field ecology, wildlife biology, and related areas.

Today's natural resource managers must be able to navigate among the complicated interactions and conflicting interests of diverse stakeholders and decisionmakers. Technical and scientific knowledge, though necessary, are not sufficient. Science is merely one component in a multifaceted world of decision making. And while the demands of resource management have changed greatly, natural resource education and textbooks have not. Until now. *Ecosystem Management* represents a different kind of textbook for a different kind of course. It offers a new and exciting approach that engages students in active problem solving by using detailed landscape scenarios that reflect the complex issues and conflicting interests that face today's resource managers and scientists. Focusing on the application of the sciences of ecology and conservation biology to real-world concerns, it emphasizes the intricate ecological, socioeconomic, and institutional matrix in which natural resource management functions, and illustrates how to be more effective in that challenging arena. Each chapter is rich with exercises to help facilitate problem-based learning. The main text is supplemented by boxes and figures that provide examples, perspectives, definitions, summaries, and learning tools, along with a variety of essays written by practitioners with on-the-ground experience in applying the principles of ecosystem management. Accompanying the textbook is an instructor's manual that provides a detailed overview of the book and specific guidance on designing a course around it. *Ecosystem Management* grew out of a training course developed and presented by the authors for the U.S. Fish and Wildlife Service at its National Training Center in Shepherdstown, West Virginia. In 20 offerings to more than 600 natural resource professionals, the authors learned a great deal about what is needed to function successfully as a professional resource manager. The book offers important insights and a unique perspective derived from that invaluable experience.

Zoos, aquaria, and wildlife parks are vital centers of animal conservation and management. For nearly fifteen years, these institutions have relied on *Wild Mammals in Captivity* as the essential reference for their work. Now the book reemerges in a completely updated second edition. *Wild Mammals in Captivity* presents the most current thinking and practice in the care and management of wild mammals in zoos and other institutions. In one comprehensive volume, the editors have gathered the most current information from studies of animal behavior; advances in captive breeding; research in physiology, genetics, and nutrition; and new thinking in animal management and welfare. In this edition, more than three-quarters of the text is new, and information from more than seventy-five contributors is thoroughly updated. The standard text for all courses in zoo biology, *Wild Mammals in Captivity* will, in its new incarnation, continue to be used by zoo managers, animal caretakers, researchers, and anyone with an interest in how to manage animals in captive conditions.

This edited volume will provide a treatment of evolutionary conservation biology that introduces and explains major concepts and also unifies recent theoretical and empirical advances.

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