

## Honeybee Democracy

**Discusses the history and habits of Africanized bees, and discusses the impact of their arrival in North America**

**Honeybee Democracy**Princeton University Press

**Studies of animal behavior have often been invoked to help explain and even guide human behavior. Think of Pavlov and his dogs or Goodall and her chimps. But, as these examples indicate, the tendency has been to focus on "higher," more cognitively developed, and thus, it is thought, more intelligent creatures than mindless, robotic insects. Not so! Learn here how honeybees work together to form a collective intelligence and even how they make decisions democratically. The wizzzdom of crowds indeed! Here are five habits of effective groups that we can learn from these clever honeybees. Princeton Shorts are brief selections excerpted from influential Princeton University Press publications produced exclusively in eBook format. They are selected with the firm belief that while the original work remains an important and enduring product, sometimes we can all benefit from a quick take on a topic worthy of a longer book. In a world where every second counts, how better to stay up-to-speed on current events and digest the kernels of wisdom found in the great works of the past? Princeton Shorts enables you to be an instant expert in a world where information is everywhere but quality is at a premium. The Five Habits of Highly Effective Honeybees (and What We Can Learn from Them) does just that.**

**Now in paperback, Marina Marchese's inspirational and practical story of learning to raise honeybees and creating a life she loves "[AN] engaging, delightfully informative work..." —Publishers Weekly "Marchese has given us a lovely gift. Honeybee is an entertaining and useful primer for the novice and honeybee devotee alike." —Washington Times "Surpassing the predictable "how I changed careers" memoir of finding the good life, Marchese's informative guide is packed with facts about everything from pollination to harvesting, life cycles to historical lore, nutritional benefits to gourmet flavor combinations, medical applications to unusual varieties." —Booklist In 1999, Marina Marchese fell in love with bees during a tour of a neighbor's honeybee hives. She quit her job, acquired her own bees, built her own hives, harvested honey, earned a certificate in apitherapy, studied wine tasting in order to transfer those skills to honey tasting, and eventually opened her own honey business. Today, Red Bee® Honey sells artisanal honey and honey-related products to shops and restaurants all over the country. More than an inspiring story of one woman's transformative relationship with honeybees (some of nature's most fascinating creatures), Honeybee is also bursting with information about all aspects of bees, beekeeping, and honey—including life inside the hive; the role of the queen, workers, and drones; pollination and its importance to sustaining all life; the culinary pleasures of honey; hiving and keeping honeybees; the ancient practice of apitherapy, or healing with honey, pollen, and bee venom; and much more. Recipes for food and personal care products appear throughout. Also included is an excellent, one-of-a-kind appendix that lists 75 different honey varietals, with information on provenance, tasting notes, and food-and-wine pairings.**

**Neurobiology of Chemical Communication**

**The Biology of the Honey Bee**

**Confessions of a Bad Beekeeper**

**Honeybee**

**Biology, Evolution, Conservation**

**QueenSpotting**

**The Five Habits of Highly Effective Honeybees (and What We Can Learn from Them)**

*""Following the Wild Bees" is both a unique meditation on the pleasures of the natural world and a guide to the ingenious methods that compose the craft of the bee hunter... Drawing on decades of experience as a bee hunter and bee biologist, Seeley weaves informative discussions of the biology of wild honey bees with colorful historical anecdotes, personal insights, and photos"--*

*"Introduces the prospective beekeeper to the basics of beekeeping through easy-to-understand text and numerous color photos on honey bee biology, beekeeping equipment, management, honey production and processing, as well as disease diagnosis and treatment*

*Beginning and experienced beekeepers are furnished with information on honeybee social order and communication, beekeeping equipment, and hive management*

*Intraspecific communication involves the activation of chemoreceptors and subsequent activation of different central areas that coordinate the responses of the entire organism—ranging from behavioral modification to modulation of hormones release. Animals emit intraspecific chemical signals, often referred to as pheromones, to advertise their presence to members of the same species and to regulate interactions aimed at establishing and regulating social and reproductive bonds. In the last two decades, scientists have developed a greater understanding of the neural processing of these chemical signals. Neurobiology of Chemical Communication explores the role of the chemical senses in mediating intraspecific communication. Providing an up-to-date outline of the most recent advances in the field, it presents data from laboratory and wild species, ranging from invertebrates to vertebrates, from insects to humans. The book examines the structure, anatomy, electrophysiology, and molecular biology of pheromones. It discusses how chemical signals work on different mammalian and non-mammalian species and includes chapters on insects, Drosophila, honey bees, amphibians, mice, tigers, and cattle. It also explores the controversial topic of human pheromones. An essential reference for students and researchers in the field of pheromones, this is also an ideal resource for those working on behavioral phenotyping of animal models and persons interested in the biology/ecology of wild and domestic species.*

*The Untold Story of the Honey Bee in the Wild*

*The Collapse of the Honey Bee and the Coming Agricultural Crisis*

*The Wisdom of the Hive*

*The Solitary Bees*

*Guide to Bees & Honey*

*Bee Time*

*Challenges and Sustainable Solutions*

A New York Times Notable Book: “A melodious mix of memoir, nature journal, and beekeeping manual” (Kirkus Reviews). Weaving a vivid portrait of her own life and her bees’ lives, author Sue Hubbell lovingly describes the ins and outs of beekeeping on her small Missouri farm, where the end of one honey season is the start of the next. With three hundred hives, Hubbell stays busy year-round tending to the bees and harvesting their honey, a process that is as personally demanding as it is rewarding. Exploring the progression of both the author and the hive through the seasons, this is “a book about bees to be sure, but it is also about other things: the important difference between loneliness and solitude; the seasonal rhythms inherent in rural living; the achievement of independence; the accommodating of oneself to nature” (The Philadelphia Inquirer). Beautifully written and full of exquisitely rendered details, it is a tribute to Hubbell’s wild hilltop in the Ozarks and of the joys of living a complex life in a simple place.

Bugs Rule! provides a lively introduction to the biology and natural history of insects and their noninsect cousins, such as spiders, scorpions, and centipedes. This richly illustrated textbook features more than 830 color photos, a concise overview of the basics of entomology, and numerous sidebars that highlight and explain key points. Detailed chapters cover each of the major insect groups, describing their physiology, behaviors, feeding habits, reproduction, human interactions, and more. Ideal for nonscience majors and anyone seeking to learn more about insects and their arthropod relatives, Bugs Rule! offers a one-of-a-kind gateway into the world of these amazing creatures. Places a greater emphasis on natural history than standard textbooks on the subject Covers the biology and natural history of all the insect orders Provides a thorough review of the noninsect arthropods, such as spiders, scorpions, centipedes, millipedes, and crustaceans Features more than 830 color photos Highlights the importance of insects and other arthropods, including their impact on human society An online illustration package is available to professors

At the heart of every bee hive is a queen bee. Since her well-being is linked to the well-being of the entire colony, the ability to find her among the residents of the hive is an essential beekeeping skill. In QueenSpotting, experienced beekeeper and professional “swarm catcher” Hilary Kearney challenges readers to “spot the queen” with 48 fold-out queenspotting puzzles — vivid up-close photos of the queen hidden among her many subjects. QueenSpotting celebrates the unique, fascinating life of the queen bee chronicles of royal hive happenings such as The Virgin Death Match, The Nuptial Flight — when the queen mates with a cloud of male drones high in the air — and the dramatic Exodus of the Swarm from the hive. Readers will thrill at Kearney’s adventures in capturing these swarms from the strange places they settle, including a Jet Ski, a couch, a speed boat, and an owl’s nesting box. Fascinating, fun, and instructive, backyard beekeepers and nature lovers alike will find reason to return to the pages again and again.

The most joyful emanation produced by a colony of bees is known as the “song of increase”—declaring that the hive is flourishing and the bees are happy in its abundance. Song of Increase takes us inside the world of the honeybee to glean the wisdom of these fascinating creatures with whom humanity has shared a sacred bond for millennia. Within these pages is a bee-centric approach to living with honeybees, rather than advice for simply maximizing the products they provide. Jacqueline Freeman takes us beyond traditional beekeeping and offers a way to work in harmony with honeybees for both their good and ours. “Our way is one of kind observation,” she explains, “where we create supportive homes and fields for bees to live in, as well as tend the heartfelt relationships we form by being together.” Song of Increase focuses on hidden aspects of apiculture that lead us naturally to more sustainable practices. Freeman illuminates the unity consciousness that guides every action in the colony and how this profound awareness can influence the way we see both the natural world and ourselves. Each chapter presents a wealth of information about the life of bees, including Freeman’s personal insights and direct teachings received from the bees themselves.

The Busy Life of Apis Mellifera

The Politics Book

The Craft and Science of Bee Hunting

Keeping Bees in Horizontal Hives

The Africanized Honey Bee in the Americas

The Lives of Bees

What Bees Want: Beekeeping as Nature Intended

*Filled with more than 150 beautiful, crystal-clear photos and bee fun facts, The Book of Bees is the ultimate guide for kids to explore the lives of these stunning insects and learn about their critical role in fostering a sustainable, healthy Earth. Did you know there are blue bees and green bees? Or that one species of bee nests in snail shells? Or that many bees don't live in hives? With more than 20,000 species of bees worldwide, there's more to bees than just honey! The Book of Bees gives curious kids a close-up view of busy buzzers from around the world. From the familiar Western honeybee to the extra-large Himalayan giant honeybee and Australia's vibrant neon cuckoo bee, these pages are packed with detailed photos and fascinating facts on more than 50 species of bees. In-depth species profiles help you identify bees, learn about bee-havior, and find your favorites! And special features examine topics like hive life, nest cells, and other pollinators. The world of bees is exciting and surprising—and The Book of Bees will leave you buzzing!*

*An incomparable illustrated look at the critical role bees play in the life of our planet Bees pollinate more than 130 fruit, vegetable, and seed crops that we rely on to survive. Bees are also crucial to the reproduction and diversity of flowering plants, and the economic contributions of these irreplaceable insects measure in the tens of billions of dollars each year. Yet bees are dying at an alarming rate, threatening food supplies and ecosystems around the world. In this richly illustrated natural history of the bee, which includes more than 250 color photographs and illustrations, Noah Wilson-Rich and his team of bee experts provide a window into the vitally important role that bees play in the life of our planet. Earth is home to more than 20,000 bee species, from fluorescent-colored orchid bees and sweat bees to flower-nesting squash bees and leaf-cutter bees. This book provides an unmatched account of this astounding diversity, blending an engaging narrative with practical, hands-on discussions of such topics as beekeeping and bee health. It explores our relationship with the bee over evolutionary time, examining how it originated and where it stands today--and what the future holds for humanity and bees alike. Provides an accessible, richly illustrated look at the human-bee relationship over time Features a section on beekeeping and handy guides to identifying, treating, and preventing honey bee diseases Covers bee evolution, ecology, genetics, and physiology Includes a directory of notable bee s Presents a holistic approach to bee health, including organic and integrated pest management techniques Shows how you can help bee populations*

*Honeybees make decisions collectively--and democratically. Every year, faced with the life-or-death problem of choosing and traveling to a new home, honeybees stake everything on a process that includes collective fact-finding, vigorous debate, and consensus building. In fact, as world-renowned animal behaviorist Thomas Seeley reveals, these incredible insects have much to teach us when it comes to collective wisdom and effective decision making. A remarkable and richly illustrated account of scientific discovery, Honeybee Democracy brings together, for the first time, decades of Seeley's pioneering research to tell the amazing story of house hunting and democratic debate among the honeybees. In the late spring and early summer, as a bee colony becomes overcrowded, a third of the hive stays behind and rears a new queen, while a swarm of thousands departs with the old queen to produce a daughter colony. Seeley describes how these bees evaluate potential nest sites, advertise their discoveries to one another, engage in open deliberation, choose a final site, and navigate together--as a swirling cloud of bees--to their new home. Seeley investigates how evolution has honed the decision-making methods of honeybees over millions of years, and he considers similarities between the ways that bee swarms and primate brains process information. He concludes that what works well for bees can also work well for people: any decision-making group should consist of individuals with shared interests and mutual respect, a leader's influence should be minimized, debate should be relied upon, diverse solutions should be sought, and the majority should be counted on for a dependable resolution. An impressive exploration of animal behavior, Honeybee Democracy shows that decision-making groups, whether honeybee or human, can be smarter than even the smartest individuals in them.*

*This book summarizes the current progress of bee researchers investigating the status of honey bees and possible reasons for their decline, providing a basis for establishing management methods that maintain colony health. Integrating discussion of Colony Collapse Disorder, the chapters provide information on the new microsporidian Nosema ceranae pathogens, the current status of the parasitic bee mites, updates on bee viruses, and the effects these problems are having on our important bee pollinators. The text also presents methods for diagnosing diseases and includes color illustrations and tables.*

*A Book of Bees*

*First Lessons in Beekeeping*

*Principles and Practice of Natural Beekeeping*

*Organic Practices for Honeybee Health*

*Bugs Rule!*

*Following the Wild Bees*

*Lessons from an Accidental Beekeeper*

*How do ant colonies get anything done, when no one is in charge? An ant colony operates without a central control or hierarchy, and no ant directs another. Instead, ants decide what to do based on the rate, rhythm, and pattern of individual encounters and interactions--resulting in a dynamic network that coordinates the functions of the colony. Ant Encounters provides a revealing and accessible look into ant behavior from this complex systems perspective. Focusing on the moment-to-moment behavior of ant colonies, Deborah Gordon investigates the role of interaction networks in regulating colony behavior and relations among ant colonies. She shows how ant behavior within and between colonies arises from local interactions of individuals, and how interaction networks develop as a colony grows older and larger. The more rapidly ants react to their encounters, the more sensitively the entire colony responds to changing conditions. Gordon explores whether such reactive networks help a colony to survive and reproduce, how natural selection shapes colony networks, and how these structures compare to other analogous complex systems. Ant Encounters sheds light on the organizational behavior, ecology, and evolution of these diverse and ubiquitous social insects.*

*Bee populations are plummeting. The solution? Give them what they need to live naturally, and they'll handle the rest. Susan Knilans and Jacqueline Freeman are in love with bees. So in love that they observe their bees—their work, communication, seasonal activity, and more—for hours each day. And with observation came realization: when bees are allowed to live as they would in nature (with smaller hives, no chemicals, freedom to swarm, and little-to-no human interference), they will thrive. Accordingly, Knilans and Freeman have spent decades perfecting the revolutionary practice of preservation beekeeping, guided by the simple question, “What do the bees want?” A surprising page-turner, this instructional book tells the story of their successes and failures, demonstrating what was learned along the way. Sharing preservation beekeeping’s key tenets, the authors provide concrete, simple ways to implement their approach, from finding the right hive location to honing observation skills. This preservation manifesto is a vital addition to any beekeeper’s library, imparting all the joys of a beekeeper’s life.*

*Diana Sammataro and Alphonse Avitabile have revised and expanded their clear and comprehensive guide to cover changes in beekeeping. They discuss the crisis created by the parasitic bee mites. In less than a decade, for example, Varroa mites have saturated the North American honeybee population with disastrous results, devastating both managed and wild populations. The new edition of The Beekeeper's Handbook covers mite detection and control as well as the selection and testing of bees that may have some tolerance to mites.\*Serves as a comprehensive well-illustrated introduction for beginners and a valuable reference for the experienced beekeeper.\*Outlines options for each operation within beekeeping, listing advantages and disadvantages of each alternative.\*Provides easy-to-follow directions and diagrams.\*Includes glossary and updated bibliography suggesting more detailed information on the topics discussed.*

*Well-documented study of bees, hives, and beekeepers, along with rare illustrations as they appear in ancient paintings, sculpture, on coins, jewelry, and Mayan glyphs.*

*The Evolution of the Imperfect Honeybee*

*A Natural History*

*The Bee*

*What Not to Do When Keeping Bees (with Apologies to My Own)*

*Honeybee Democracy*

*A Study of Adaptation in Social Life*

*Keeping Bees with a Smile*

*The popular host of BBC Breakfast recounts his many misadventures as a backyard beekeeper—“A truly wonderful read” (Diana Sammataro, PhD, coauthor of The Beekeeper’s Handbook). Bill Turnbull had no intention of becoming a beekeeper. But when he saw an ad for beekeeping classes—after a swarm of bees landed in his suburban backyard—it seemed to be a sign. Despite being stung on the head—twice—at his first hands-on beekeeping class, Turnbull found himself falling in love with the fascinating, infuriating honeybee. As a new beekeeper, Turnbull misplaced essential equipment, got stung more times—and in more places—than he cares to remember, and once even lost some bees up a chimney. But he kept at it, with a ready sense of humor and Zen-like acceptance of every mishap. And somehow, along the way, he learned a great deal about himself and the world around him. Confessions of a Bad Beekeeper chronicles Turnbull’s often hilarious and occasionally triumphant adventures in the curious world of backyard beekeeping. Along the way, he offers plenty of hard-won apiarian wisdom and highlights both the threat to our bee population and what we can do to help these vital little creatures do their wonderful work.*

*A how-to book on an exhilarating outdoor activity and a unique meditation on the pleasures of the natural world Following the Wild Bees is a delightful foray into the pastime of bee hunting, an exhilarating outdoor activity that used to be practiced widely but which few people know about today. Weaving informative discussions of bee biology with colorful anecdotes, personal insights, and beautiful photos, Thomas Seeley describes the history and science behind this lost pastime and how anyone can do it. The bee hunter's reward is a thrilling encounter with nature that challenges mind and body while also giving insights into the remarkable behavior of honey bees living in the wild. Whether you're a bee enthusiast or just curious about the natural world, this book is the ideal companion for newcomers to bee hunting and a rare treat for armchair naturalists.*

*The updated bestselling guide to laid-back beekeeping for all, naturally! Are you a beginner beekeeper curious about bees or a practicing beekeeper looking for natural alternatives that work? Then this book is for you! In the second edition of the bestselling beekeeping guide Keeping Bees with a Smile, Fedor Lazutin, one of Europe's most successful natural beekeepers, shares the bee-friendly approach to apiculture that is fun, healthful, rewarding, and accessible to all. This new edition includes dozens of color photographs, new hive management techniques, and an updated version of "Lazutin hive" plans. Additional coverage includes: Keeping bees naturally without interfering in their lives Starting an apiary for free by attracting local bee swarms Building low-maintenance hives that mimic how bees live in nature Keeping colonies healthy and strong without any drugs, sugar, or gimmickry Helping bees to overwinter successfully even in harsh climates Enhancing local nectar plant resources Producing truly natural honey without robbing the bees Reversing the global bee decline... right in your backyard! Keeping Bees with a Smile is an invaluable resource for apiculture beginners and professionals alike, complete with plans for making bee-friendly, well-insulated horizontal hives with extra-deep frames, plus other fascinating beekeeping advice you won't find anywhere else.*

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*A Novel*  
*Ant Encounters*  
*Fruitless Fall*  
*the social physiology of honey bee colonies*  
*The Dark Side of the Hive*  
*An Introduction to the World of Insects*  
*Bee People and the Bugs They Love*

*This book not only reviews the basic aspects of social behavior, ecology, anatomy, physiology, and genetics, it also summarizes major controversies in contemporary honey bee research, such as the importance of kin recognition in the evolution of social behavior and the role of the well-known dance language in honey bee communication.*

*For every gardener who cares about the planet, this guide to designing a bee garden helps you create a stunningly colorful, vibrant, healthy habitat that attracts both honeybees and native bees. In The Bee-Friendly Garden, award-winning garden designer Kate Frey and bee expert Gretchen LeBuhn provide everything you need to know to create a dazzling garden that helps both the threatened honeybee and our own native bees. No matter how small or large your space, and regardless of whether you live in the city, suburbs, or country, just a few simple changes to your garden can fight the effects of colony collapse disorder and the worldwide decline in bee population that threatens our global food chain. There are many personal benefits of having a bee garden as well! Bee gardens: · contain a gorgeous variety of flowers · bloom continuously throughout the seasons · are organic, pesticide-free, and ecologically sustainable · develop healthy and fertile soil · attract birds, butterflies, and other beneficial insects · increase the quantity of your fruit and vegetable harvest · improve the quality, flavor, and size of your produce Illustrated with spectacular full-color photos, The Bee-Friendly Garden debunks myths about bees, explains seasonal flower progression, and provides detailed instructions for nest boxes and water features. From “super blooming” flowers to regional plant lists and plants to avoid, The Bee-Friendly Garden is an essential tool for every gardener who cares about the planet and wants to make their yard a welcoming habitat for nature’s most productive pollinator.*

*Many people will remember that Rachel Carson predicted a silent spring, but she also warned of a fruitless fall, a time with no pollination and no fruit. The fruitless fall nearly became a reality when, in 2007, beekeepers watched thirty billion bees mysteriously die. And they continue to disappear. The remaining pollinators, essential to the cultivation of a third of American crops, are now trucked across the country and flown around the world, pushing them ever closer to collapse. Fruitless Fall does more than just highlight this growing agricultural catastrophe. It emphasizes the miracle of flowering plants and their pollination partners, and urges readers not to take the abundance of our Earth for granted. A new afterword by the author tracks the most recent developments in this ongoing crisis.*

*Politics affects us all and the same questions reverberate across history. Who should rule? Is property theft? What’s mightier - the bullet or the ballot? Discover 80 of the world’s greatest thinkers and their political big ideas that continue to shape our lives today. Humankind has always asked profound questions about how we can best govern ourselves and how rulers should behave. The Politics Book charts the development of long-running themes, such as attitudes to democracy and violence, developed by thinkers from Confucius in ancient China to Mahatma Gandhi in 20th-century India. Justice goes hand in hand with politics, and in this comprehensive guide, you can explore the championing of people’s rights from the Magna Carta to Thomas Jefferson’s Bill of Rights and Malcolm X’s call to arms. Ideologies inevitably clash and The Politics Book takes you through the big ideas such as capitalism, communism, and fascism exploring their beginnings and social contexts in step-by-step diagrams and illustrations, with clear explanations that cut through the jargon. Filled with thought-provoking quotes from great thinkers such as Nietzsche, Karl Marx, and Mao Zedong, The Politics Book is a thought-provoking and unmissable read for both students and everyone interested in how the world of government and power works. Series Overview: Big Ideas Simply Explained series uses creative design and innovative graphics along with straightforward and engaging writing to make complex subjects easier to understand. With over 7 million copies worldwide sold to date, these award-winning books provide just the information needed for students, families, or anyone interested in concise, thought-provoking refreshers on a single subject.*

*Interaction Networks and Colony Behavior*

*Meet the Remarkable Queen Bee and Discover the Drama at the Heart of the Hive; Includes 48 Queenspotting Challenges*

*Top-Bar Beekeeping*

*The Sacred Bee in Ancient Times and Folklore*

*Honeybee Ecology*

*Inside the Hives and Lives of Honeybees, Bumblebees, Cuckoo Bees, and Other Busy Buzzers*

*Listening to the Wisdom of Honeybees for Kinder Beekeeping and a Better World*

*#1 NEW YORK TIMES BESTSELLER • Diana Gabaldon returns with the “vast and sweeping” (The Washington Post) new novel in the epic Outlander series. War leaves nobody alone. Neither the past, the present, nor the future offers true safety, and the only way to protect: your family, your friends, your home. Jamie Fraser and Claire Randall were torn apart by the Jacobite Rising in 1746, and it took them twenty years of loss and heartbreak to find each other again. Now it’s 1779, and Claire and Jamie are finally reunited. Brianna, her husband, Roger, and their children, and are rebuilding their home on Fraser’s Ridge—a fortress that may shelter them against the winds of war as well as weather. But tensions in the Colonies are great: Battles rage from New York to Georgia and the backcountry, feelings run hot enough to boil Hell’s teakettle. Jamie knows that loyalties among his tenants are split and it won’t be long before the war is on his doorstep. Brianna and Roger have their own worry: that the dangers that provoked their escape a century might catch up to them. Sometimes they question whether risking the perils of the 1700s—among them disease, starvation, and an impending war—was indeed the safer choice for their family. Not so far away, young William Ransom is coming to town to identify his future, and the family he’s never known. His erstwhile father, Lord John Grey, has reconciliations to make and dangers to meet on his son’s behalf and on his own, and far to the north, Young Ian Murray fights his own battle between past and future he’s loved. Meanwhile, the Revolutionary War creeps ever closer to Fraser’s Ridge. Jamie sharpens his sword, while Claire whets her surgeon’s blade: It is a time for steel.*

*“A successful and funny book that is sure to swell the ranks of the world’s beekeepers.” —New York Times A fascinating foray into the obsessions, friendships, scientific curiosity, misfortunes and rewards of suburban beekeeping—through the eyes of a Master Beekeeper. Keep bees? And why? For the answers, Master Beekeeper Frank Mortimer invites readers on an eye-opening journey into the secret world of bees, and the singular world of his fellow bee-keepers. There’s the Badger, who introduces Frank to the world of beekeeping; the septuagenarian bee sting therapist certain that honey will be the currency of the future after the governments fail; Scooby the “dude” who gets a meditative high off the awesome vibes of his psychedelia-painted hives; and the Berserker, a honeybee hitman who teaches a raising lesson in staving off the harmful influences of an evil queen: “Squash her, mash her, kill, kill, kill!” Frank also crosses paths with those he calls the Surgeons (precise and protected), the Cowboys (improvisational and unguarded) and the Poseurs, ex-collectors who are informed and ill-prepared for the stinging reality of their new lives. In connecting with this club of disparate but kindred spirits, Frank discovers the centuries-old history of the trade; the practicality of maintaining it; what bees see, think, and feel (emotionally and defensively); how they talk to each other and socialize; and what can be done to combat their biggest threats, both human (anti-apiarist extremists) and mite (the Varroa Destructor). With a swarm of offbeat characters and fascinating facts (did that bee just die? Yes, Bee Man delivers an informative, funny, and galvanizing book about the symbiotic relationship between flower and bee, and bee and the beekeepers who are determined to protect the existence of one of the most beguiling and invaluable creatures on earth. —American Bee Journal “A playful storyteller... A compelling memoir.” —Foreword Reviews “A useful how-to guide as well as an affectionate ode to nature’s pollinators and honey makers.” —Publishers Weekly “This book includes great humor and a use of all the tremendous background knowledge.” —San Francisco Book Review “Frank’s personal stories of his beekeeping journey are entertaining, well written, and will quickly have you happily lost in the world of bees.” —Paleo Magazine “Bee People and the Bugs They Love and getting a ton of buzz. Bee smart, people, and read this un-BEE-lievably interesting look at the quirky world of beekeeping.” —Harlan Coben, #1 New York Times bestselling author “A delightful portrayal for non-beekeepers of what life is like for those of us who keep bees.” —Tom Seeley, author of The Lives of Bees “A fun and exciting tale of the wonder-filled world of beginner beekeeping.” —Noah Wilson-Rich, author of Bee: A Natural History , and CEO and partner The Best Bees Company*

*After her mother’s death, Lily Owens and her African-American maid seek refuge from the racism of their South Carolina hometown with eccentric beekeeping sisters in this coming of age story representing the letter “K” in a new series of twenty-six collected stories. In recent years beekeepers have had to face tremendous challenges, from pests such as varroa and tracheal mites and from the mysterious but even more devastating phenomenon known as Colony Collapse Disorder (CCD). Yet in backyards and on rooftops, bees are being raised successfully, even without antibiotics, miticides, or other chemical inputs. More and more organically minded beekeepers are now using top-bar hives, in which the shape of the interior resembles a hollow log. Long lasting and completely biodegradable, untreated wood allows bees to build comb naturally rather than simply filling prefabricated foundation frames in a typical box hive with added supers. Top-bar hives yield slightly less honey but produce more beeswax than a typical Langstroth box hive. Regular removal of old combs helps to keep bees healthier and naturally disease-free. Top-Bar Beekeeping provides complete information on hive management and other aspects of using these innovative hives. All home and hobbyist beekeepers who have the time and interest intensively should consider the natural, low-stress methods outlined in this book. It will also appeal to home orchardists, gardeners, and permaculture practitioners who look to bees for pollination as well as honey or beeswax.*

From Honeybee Democracy

A Complete Guide to Apiculture

Go Tell the Bees That I Am Gone

Killer Bees

The Secret Life of Bees

Fifty Years Among the Bees

Being among bees is a full-body experience, Mark Winston writes. Bee Time presents his reflections on three decades spent studying these remarkable creatures, and on the lessons they can teach about how humans might better interact with one another and the natural world, from the boardroom to urban design to agricultural ecosystems.

This book describes and illustrates the results of more than fifteen years of elegant experimental studies conducted by the author to investigate how a colony of bees is organized to gather its resources. The results of his research—including studies of the shaking signal, tremble dance, and waggle dance—offer the clearest, most detailed picture available of how a highly integrated animal society works.

Honey bees have been described as exceptionally clever, well-organized, mutualistic, collaborative, busy, efficient—in short a perfect society. While the colony is indeed a marvel of harmonious, efficient organization, it also has a considerable dark side. Authors Robin Moritz and Robin Crewe write about the life history of the honey bee, *Apis mellifera*, highlighting conflict rather than harmony, failure rather than success, from the perspective of the individual worker in the colony. When one looks carefully, the honey bee colony is far from being perfect. As with any complex social system, honeybee societies are prone to error, robbery, cheating, and social parasitism. Nevertheless, the hive gets by remarkably well in spite of many seemingly odd biological features. The perfection that is perceived to exist in the honeybee’s social organization is the function of a focus on the colony as a whole rather than exploring the idiosyncrasies of its individual members. The Dark Side of the Hive thus focuses on the role of the individual rather than that of the collective. Moritz and Crewe dissect the various careers that individual male and female honey bees can take and their role in colony organization. Competition between individuals using both physical and chemical force drives colonial organization. This book deals with individual mistakes, maladaptations and evolutionary dead-ends that are also part of the bees’ life. The story told about these dark sides of the colony spans the full range of biological disciplines ranging from genomics to systems biology.

The book presents honeybees as a model system for investigating advanced social life among insects from an evolutionary perspective. Originally published in 1985. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Song of Increase

The Beekeeper’s Handbook

The Book of Bees

Lessons from the Hive

Design an Abundant, Flower-Filled Yard that Nurtures Bees and Supports Biodiversity

Honey Bee Colony Health

The Bee-Friendly Garden

Robert F. Sibert Medal Winner Take to the sky with Apis, one honeybee, as she embarks on her journey through life! An Orbis Pictus Honor Book Selected for the Texas Bluebonnet Master List Finalist for the AAAS/Subaru SB&F Prize for Excellence in Science Books A tiny honeybee emerges through the wax cap of her cell. Driven to protect and take care of her hive, she cleans the nursery and feeds the larvae and the queen. But is she strong enough to fly? Not yet! Apis builds wax comb to store honey, and transfers pollen from other bees into the storage. She defends the hive from invaders. And finally, she begins her new life as an adventurer. The confining walls of the hive fall away as Apis takes to the air, finally free, in a brilliant double-gatefold illustration where the clear blue sky is full of promise-- and the wings of dozens of honeybees, heading out in search of nectar to bring back to the hive. Eric Rohmann’s exquisitely detailed illustrations bring the great outdoors into your hands in this poetically written tribute to the hardworking honeybee. Award-winning author Candace Fleming describes the life cycle of the honeybee in accessible, beautiful language. Similar in form and concept to the Sibert and Orbis Pictus award book Giant Squid, Honeybee also features a stunning gatefold and an essay on the plight of honeybees. Cook Prize Honor Book A Kids’ Book Choice Award Finalist An American Library Association Notable Children’s Book A New York Public Library Best Book of the Year Named a Best Book of the Year by Kirkus Reviews, NPR, Shelf Awareness, School Library Journal, Publishers Weekly and more! A Horn Book Fanfare Best Book of the Year A Bank Street Best Children’s Book of the Year! A Bulletin of the Center for Children’s Books Blue Ribbon Book A Booklist Editor’s Choice Named to the Texas Topaz Reading List A Junior Library Guild Gold Standard Selection

How the lives of wild honey bees offer vital lessons for saving the world’s managed bee colonies Humans have kept honey bees in hives for millennia, yet only in recent decades have biologists begun to investigate how these industrious insects live in the wild. The Lives of Bees is Thomas Seeley’s captivating story of what scientists are learning about the behavior, social life, and survival strategies of honey bees living outside the beekeeper’s hive—and how wild honey bees may hold the key to reversing the alarming die-off of the planet’s managed honey bee populations. Seeley, a world authority on honey bees, sheds light on why wild honey bees are still thriving while those living in managed colonies are in crisis. Drawing on the latest science as well as insights from his own pioneering fieldwork, he describes in extraordinary detail how honey bees live in nature and shows how this differs significantly from their lives under the management of beekeepers. Seeley presents an entirely new approach to beekeeping—Darwinian Beekeeping—which enables honey bees to use the toolkit of survival skills their species has acquired over the past thirty million years, and to evolve solutions to the new challenges they face today. He shows beekeepers how to use the principles of natural selection to guide their practices, and he offers a new vision of how beekeeping can better align with the natural habits of honey bees. Engagingly written and deeply personal, The Lives of Bees reveals how we can become better custodians of honey bees and make use of their resources in ways that enrich their lives as well as our own.

The most up-to-date and authoritative resource on the biology and evolution of solitary bees While social bees such as honey bees and bumble bees are familiar to most people, they comprise less than 10 percent of all bee species in the world. The vast majority of bees lead solitary lives, surviving without the help of a hive and using their own resources to fend off danger and protect their offspring. This book draws on new research to provide a comprehensive and authoritative overview of solitary bee biology, offering an unparalleled look at these remarkable insects. The Solitary Bees uses a modern phylogenetic framework to shed new light on the life histories and evolution of solitary bees. It explains the foraging behavior of solitary bees, their development, and competitive mating tactics. The book describes how they construct complex nests using an amazing variety of substrates and materials, and how solitary bees have co-opted beneficial mites, nematodes, and fungi to provide safe environments for their brood. It looks at how they have evolved intimate partnerships with flowering plants and examines their associations with predators, parasites, microbes, and other bees. This up-to-date synthesis of solitary bee biology is an essential resource for students and researchers, one that paves the way for future scholarship on the subject. Beautifully illustrated throughout, The Solitary Bees also documents the critical role solitary bees play as crop pollinators, and raises awareness of the dire threats they face, from habitat loss and climate change to pesticides, pathogens, parasites, and invasive species.