

1. Record Nr.	UNINA9910462813803321
Autore	Page Robert E
Titolo	The spirit of the hive [[electronic resource]] : the mechanisms of social evolution / / Robert E. Page
Pubbl/distr/stampa	Cambridge, Mass., : Harvard University Press, 2013
ISBN	0-674-07556-0 0-674-07554-4
Descrizione fisica	1 online resource (240 p.)
Disciplina	595.79/9
Soggetti	Beehives Honeybee - Behavior Honeybee - Evolution Pollen Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- Contents -- Foreword -- Preface -- 1. Darwin's Dilemma and the Spirit of the Hive -- 2. What Is the Spirit of the Hive? -- 3. Individual Variation in Behavior -- 4. The Evolution of Polyandry -- 5. The Phenotypic Architecture of Pollen Hoarding -- 6. The Genetic Architecture of Pollen Hoarding -- 7. Reproductive Regulation of Division of Labor -- 8. Developmental Regulation of Reproduction -- 9. The Regulatory Architecture of Pollen Hoarding -- 10. A Crowd of Bees -- Acknowledgments -- Index
Sommario/riassunto	Charles Darwin struggled to explain how forty thousand bees working in the dark, seemingly by instinct alone, could organize themselves to construct something as perfect as a honey comb. How do bees accomplish such incredible tasks? Synthesizing the findings of decades of experiments, The Spirit of the Hive presents a comprehensive picture of the genetic and physiological mechanisms underlying the division of labor in honey bee colonies and explains how bees' complex social behavior has evolved over millions of years. Robert Page, one of the foremost honey bee geneticists in the world, sheds light on how the coordinated activity of hives arises naturally when worker bees respond

to stimuli in their environment. The actions they take in turn alter the environment and so change the stimuli for their nestmates. For example, a bee detecting ample stores of pollen in the hive is inhibited from foraging for more, whereas detecting the presence of hungry young larvae will stimulate pollen gathering. Division of labor, Page shows, is an inevitable product of group living, because individual bees vary genetically and physiologically in their sensitivities to stimuli and have different probabilities of encountering and responding to them. A fascinating window into self-organizing regulatory networks of honey bees, *The Spirit of the Hive* applies genomics, evolution, and behavior to elucidate the details of social structure and advance our understanding of complex adaptive systems in nature.

2. Record Nr.	UNINA9910484770503321
Autore	Kirchberger Sarah
Titolo	Assessing China's naval power : technological innovation, economic constraints, and strategic implications / / Sarah Kirchberger
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-662-47127-2 9783662471272 3662471272 3662471264 9783662471265
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (337 p.)
Collana	Global power shift
Disciplina	359.030951
Soggetti	Sea-power - China International relations Globalization Markets China Relations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.

Nota di contenuto

1 Introduction -- 2 Naval Power and Its Role in China's Rise -- 3 Comparing Naval Capability and Estimating the Cost Impact -- 4 Producing Naval Weapon Systems: The Industrial Basis of Naval Power -- 5 The PLA Navy's Capability Profile -- 6 Strategic Implications of China's Naval Build-Up -- 7 Concluding Remarks and Summary of Results.

Sommario/riassunto

This book analyzes the rise of China's naval power and its possible strategic consequences from a wide variety of perspectives – technological, economic, and geostrategic – while employing a historical-comparative approach throughout. Since naval development requires huge financial resources and mostly takes place within the context of transnational industrial partnerships, this study also consciously adopts an industry perspective. The systemic problems involved in warship production and the associated material, financial, technological, and political requirements currently remain overlooked aspects in the case of China. Drawing on first-hand working experience in the naval shipbuilding industry, the author provides transparent criteria for the evaluation of different naval technologies' strategic value, which other researchers can draw upon as a basis for further research in such diverse fields as International Security Studies, Naval Warfare Studies, Chinese Studies, and International Relations.
