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2.	Record Nr.	UNINA9910383820703321
	Autore	Meyer Kate
	Titolo	Planetary Accounting : Quantifying How to Live Within Planetary Limits at Different Scales of Human Activity / / by Kate Meyer, Peter Newman
	Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
	ISBN	981-15-1443-7
	Edizione	[1st ed. 2020.]
	Descrizione fisica	1 online resource (XIV, 278 p. 39 illus., 36 illus. in color.)
	Disciplina	658.408
	Soggetti	Sustainable development Physical geography Economic development—Environmental aspects Natural resources Environmental management Sustainable Development Earth System Sciences Development and Sustainability Natural Resources Environmental Management

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Nota di contenuto	Part 1: Introduction -- Chapter 1: The science of anthropogenic climate change -- Chapter 2: The Holocene, the Anthropocene, and the Planetary Boundaries -- Chapter 3: Managing the Earth System – Why we Need a Poly-Scalar Approach -- Chapter 4: Environmental Accounting, Absolute Limits, and Systemic Change -- Chapter 5: Resolving the Disconnect between Earth System Science, Management Theory, and Environmental Accounting -- Part 2: Developing Planetary Quotas -- Chapter 6: Translating the Planetary Boundaries into Planetary Quotas -- Chapter 7: A Planetary Quota for Carbon Dioxide.- Chapter 8: A Quota for Agricultural GHG Emissions (Methane and Nitrous Oxide) -- Chapter 9: A Quota for Forestland -- Chapter 10: A Quota for Ozone Depleting Substances -- Chapter 11: A Quota for Aerosols -- Chapter 12: A Quota for Water -- Chapter 13: A Quota for Nitrogen -- Chapter 14: The Phosphorus Quota -- Chapter 15: The Biodiversity Quota -- Chapter 16: The Imperishable Waste Quota. Part 3: The planetary Accounting Framework -- Chapter 17: The Planetary Accounting Framework.
Sommario/riassunto	This book presents a novel way to enable people, regardless of their scale of influence, to take responsibility for global environmental problems including climate change. It introduces a new framework called Planetary Accounting, which allows the Planetary Boundaries, non-negotiable limits for the environment, to be translated into limits for human activity. It shows how such limits can be broken down into chunks that can be managed at different levels (from individual and community, to business and sector levels, to cities and regions), and at any level of government. The book begins by summarising the science of climate change and introducing the notion of the Anthropocene – the “human age”. It highlights the importance of returning to and remaining within the Planetary Boundaries but shows that we can’t realistically do so unless we have a new approach to environmental accounting. The book then outlines how Planetary Accounting furnishes this new approach by combining sustainability science, change theory, and environmental accounting to create a scalable framework for environmental management that encourages systemic and individual change. The details of the science of and our human contribution to ten critical human pressures are then presented, and the book concludes with a guide for those seeking to apply Planetary Accounting in practice. Planetary Accounting could form the scientific underpinning of behaviour change programs, guide the development of policy and regulations, and provide both the basis for environmental laws, and the foundation of future global environmental agreements. It has been 50 years since the first views from space showed a blue planet alone in our solar system. This book is an historic opportunity to provide humanity for the first time with sufficient information to begin implementing Planetary Accounting. .