

# The Political Economy Of Rare Earth Elements Rising Powers And Technological Change International Political Economy Series

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## From Terrestrial Subsoils to Lunar Landscapes

Forgotten Books  
Drawing on the newest and most sophisticated historical research and scholarship in the field, Modern South Asia provides a challenging insight for those with an intellectual curiosity about the region. After sketching the pre-modern history of the subcontinent, the book concentrates on the last three centuries. Jointly authored by two leading Indian and Pakistani historians, it offers a rare depth of historical understanding of the politics, cultures, and economies that shape the lives of more than a fifth of humanity. In this comprehensive study, the authors interpret and debate the striking developments in contemporary South Asian history and historical writing, covering the entire spectrum of the region's modern history "social, economic and political. The book provides new insights into the structure and ideology of the British raj, the meaning of subaltern resistance, the refashioning of social relations along the lines of caste, class, community and gender, the different strands of anti-colonial nationalism and the dynamics of decolonization. This third edition brings the debate up to the present day, taking account of recent historical research and covering the closer integration of South Asia with the global economy, the impact of developments in Afghanistan on the region as a whole, and the fresh challenges to South Asia's nation-states.

Thoughts on Political Economy (1820)

Forgotten Books

Excerpt from The Political Economy of Great

Britain, the United States, and France, in the Use of Money: A New Science of Production and Exchange I dedicate to you this book, which for good reasons, as I believe, I have entitled The Political Economy of Great Britain, the United States, and France, in the use of Money. A new Science of Production and Exchange. My theory of money, and consequently of deposits, is, I believe, entirely new, and therefore so entirely opposed to all current ideas and the language which embodies them, that to get a fair hearing at once may perhaps be difficult. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

**Rare Earth Frontiers** Forgotten Books

Excerpt from The Economic Schools and the Teaching of Political Economy in France A recent American writer, after justly praising the marked progress of economic science in Germany, expresses himself as follows concerning France. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

The American Political Economy Forgotten Books

Excerpt from The Complete Works of Henry George: The Science of Political Economy, Books 3 to 5 For the object of production is the satisfaction of human desires, that is to say it is consumption; and this object is not made capable of attainment, that is to say, production is not really complete, until wealth is brought to the place where it is to be consumed and put at the disposal of him whose desire it is to satisfy. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

*The Political Economy and Business Management of the Railroad* Forgotten Books

Excerpt from Occam's Razor: The Application of a Principle; To Political Economy; To the Conditions of Progress; To Socialism; To Politics The four essays which follow, though each is complete in itself, are but four aspects of a single thought, which it is hoped will be plain to any one who thinks it worth his while to read them through. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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

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**The Political Economy of Humanism** The Political Economy of Rare Earth Elements Rising Powers and Technological Change

Resource competition, mineral scarcity, and economic statecraft -- What are rare earths? -- Salt and oil : strategic parallels -- How China came to dominate the rare earth industry

**Rare Books in Economics** Routledge

Excerpt from *The Political Economy of War* 11, 1918, the unconscious processes of normal life were abandoned, and Europe swung reeling to the conscious agony of war. It is no purpose of mine to paint the unimagined horror of those fearful years. That work is for the historian and the poet of a later age. For him the clear heart, the human sympathy, the pity, the grace, the tears For the economist these years have framed a task much humbler, but one, nevertheless, which it is right that he should try to accomplish. They have set out in strong relief, against the cool rhythm of a settled order, the strained and stressed economy of world-shattering war. What was the anatomy and physiology of that economy? 'how did the structures that had grown up in another environment and had adapted themselves to other ends respond to the new calls made upon them? To the Political Economy we have read hitherto there is needed a companion volume, the Political Economy of War. Some pages of this I shall try to write, partly in general terms, partly With more special reference to the experience of this country. If I succeed in any measure, some complex issues should be resolved and some confusions cleared. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

**The Political Economy of Place** Academic Foundation

The Political Economy of Rare Earth Elements Rising Powers and Technological Change Springer

**Political Crises, Social Conflict and Economic Development** Forgotten Books  
Written under the auspices of the Center of International Study, Princeton University. *Cyclopaedia of Political Science, Political Economy, and of the Political History of the United States, Vol. 3* Basic Books

Excerpt from *A Treatise on the Political Economy of Railroads: In Which the New Mode of Locomotion Is Considered in Its Influence Upon the Affairs of Nations* The importance Of the railroad system is now so fully established in the estimation of the

people of this and of all other nations to whom the scientific inventions of Great Britain are transmitted, that arguments are no longer required in support of the general advantages Of iron roads. The Object of the present work is, accordingly, to attempt the establishment Of the system upon the most economical, durable, and least hazardous. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

*A Treatise on the Political Economy of Railroads* Forgotten Books

Rare earth elements are not rare at all. They are essential for the hardware of contemporary life as we know it, every contemporary industrialized society depends on them, and there are no known alternatives. Yet the geography of their production is strange. In 2009, China accounted for 97% percent of global production, with the majority coming from the Bayan Obo mine operated by the state-owned enterprise Baotou Rare Earth Group on the southern Mongolian steppe. When gradually intensifying export quotas combined with a temporary halt of official exports in 2010, the rest of the world woke up to its near total dependence on China's rare earth monopoly. To address this crisis, a Brazilian firm (Companhia Brasileira de Metalurgia e Mineração) determined to capture rare earths from its niobium mine tailings in the state of Minas Gerais. Betting on the willingness of downstream firms to pay a premium for non-Chinese rare earths and subsidizing the effort with revenues from their niobium sales, they resolved to produce a steady output of rare earth oxides regardless of global market fluctuations. In 2012, CBMM successfully produced high-purity rare earth oxides. In 2013, the US, EU, and Japan won a WTO case against China's rare earth export quotas, restoring some semblance of the global status quo. But the story does not end there. Despite the relative ubiquity of rare earth elements, the abundance of known reserves near existing infrastructure networks, and the dissolution of the 2010 crisis, global prospecting efforts--with the aid of national governments and militaries--have targeted São Gabriel da Cachoeira in the high Amazon and the Western Lunar Highlands on the Moon as the next major points on the global rare earth frontier. This dissertation addresses the question: Given that rare earth elements are both abundant and vital, why is their production driven to so few, seemingly remote places? This question immediately begets three others: through what

processes did China's Bayan Obo mine emerge as the single greatest source of rare earth elements worldwide? What provoked changes in China's policy and practice, and how did this precipitate spatial transformations elsewhere? And for what purposes are state, military, and private actors pursuing rare earth mining in São Gabriel da Cachoeira and the Moon? This dissertation proposes that the strange geography of the global rare earth frontier can be explained by world-historical shifts in the global division of toxic labor occurring within a context of state-building and geopolitical contest. It thus advances three claims. First, China's monopoly emerged through a convergence of long-term historical processes shaping northern China in the context of early 20th century imperialism, Cold War politics, and the epochal global economic shifts precipitated by Deng Xiaoping's 1978 reforms and the Reagan/Thatcher revolution. Second, the change in China's political economic priorities from export dominance to conservation has been stimulated by the acute environmental and epidemiological harms generated by rare earth production coupled with China's changing position in the global division of labor. Third, the contemporary geography of the global rare earth frontier is driven by more than geological determinism: although these sites are rich in rare earth elements, they are also historically contested regions and focal points for territorial agendas, for which a nationalist mandate for rare earth extraction provides a convenient pretext. These claims are based in a world-historical analysis of rare earth mining, and draw on political economy, political ecology, transnational theory to examine the convergence of Baotou, São Gabriel da Cachoeira, and the Moon in the production of the global rare earth frontier from the late 19th to early 21st century. I engage scientific literatures, archives, expert interviews and other perspectives across the Anglophone, Sinophone, and Lusophone world which were gathered in China, Brazil, and the United States during 2010 - 2014. The multilingual approach is central to this project. Multiple forms of knowledge are evident in the discourses on the rare earth frontier, and there is a symmetrical inaccessibility to the working rationales across language barriers even as these rationales interpenetrate to shape thought and action across global space. By examining the transnational historical production of the rare earth frontier across these sites, this dissertation refutes three dominant, yet persistent assumptions circulating in contemporary popular, policy, and academic discourse. First, that China's rare earth monopoly emerged because it possesses more rare earth elements than any other country; second, that China and Brazil possess mutually unintelligible histories precluding grounded relational analyses, and; third, that the Moon is a space of exception, beyond the purview of global economic activities and likewise, therefore, of critical concern. The purpose of this work is to demystify the contemporary global rare earth frontier. This work therefore has three aims. The first is to equip the reader with a deeper understanding of rare earth elements--the peculiarities of their geology and production, their political economic significance and their role in geopolitics far beyond what is available in the flurry of reports and opinion pieces generated since 2009. The second is to interrogate the historical origins and ongoing ramifications of

the recent 'crisis' not as an exceptional circumstance, but as an episode that can be understood as emerging from and indicative of global development politics. The third and broadest aim is to move beyond entrenched global imaginaries that insist on the mutual unintelligibility of 'China' and 'the West,' or which seek to explain global changes as a series of unidirectional 'impacts' of one place on another, of 'center' on 'periphery,' (Hart 2002) as exemplified by much recent (but important) work concerned with China and Latin America (Gallagher 2008, García-Herrero 2007, Jenkins 2008, Rodriguez 2006). Although these sites differ in many important ways, each demonstrates a particular set of frontier attributes drawing especially from their respective histories at the margins of major imperial and territorial powers. These similarities help explain their convergence as points of extraction along the contemporary global rare earth frontier, while their differences account for the temporal and technological relationalities among these three sites in the global division of toxic labor.

#### **History, Culture, Political Economy** Forgotten Books

Owing to their unique magnetic, phosphorescent, and catalytic properties, rare earths are the elements that make possible everything from the miniaturization of electronics, to the enabling of green energy and medical technologies, to supporting essential telecommunications and defense systems. An iPhone uses eight rare earths for everything from its colored screen, to its speakers, to the miniaturization of the phone's circuitry. On the periodic table rare earth elements comprise a set of seventeen chemical elements (the fifteen lanthanides plus scandium and yttrium). There would be no *Pokémon Go* without rare earths. *Rare Earth Frontiers* is a work of human geography. Klinger looks historically and geographically at the ways rare earth elements in three discrete but representative and contested sites are given meaning.

#### The Complete Works of Henry George Forgotten Books

Excerpt from *Cyclopaedia of Political Science, Political Economy, and of the Political History of the United States, Vol. 2: By the Best American and European Writers*; East India Company, Nullification But the same quantities of the same commodities cost, when bought in the East Indies, according to Mr. Mun, 'as follows. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

#### *The Political Economy of American*

*Industrialization, 1877–1900* Boydell & Brewer Excerpt from *Land, Labor and Liquor: A Chapter in the Political Economy of the Present Day* As the writer points out, the working man has awakened

to the fact that the great weapon in the hands of Oppressors and monopolists - the great weight on the back of the wage-worker, hindering his rise (which would otherwise be natural and rapid in this freest of all countries) is the liquor trade, and thank God, that realization once expressed as a square issue at the polls will settle, once and for all, the fate of this worthless and evil trade in this fair Canada Of ours. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

#### *China and the Geopolitics of Rare Earths*

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Excerpt from *The Political Economy and Business Management of the Railroad: Syllabus of Lectures Prepared for Use in Purdue University* About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

*Comprising a Choice Collection of Rare and Valuable Works on Political Economy, Finance, Currency and Banking, History, Biography, and General Literature (Classic Reprint)* Cambridge University Press

Excerpt from *The Political Economy of Humanism* To have life and practicality, political economy should be studied in connection with its counterpart, the human constitution. Its positive element is subjective, while environment, or the objective, only constitutes its negativity. In other words, mind is the active worker, while labor, capital, land, wages, profits, and values are its instruments or outward articulations. Cooperation and competition are not external qualities belonging to some legal framework or social system, but are dispositions in man. They cannot be put on or off as occasion may demand, but are matters of moral and ethical education. So, too, a true socialism is not a matter of political form, but its location must be within the human heart and consciousness. This is no attempt to make people content with things as they are, but to turn the search for improvement in a promising direction. Unrest and agitation are vastly better than stagnation, but to bring the best results they must be wisely practical and in harmony with Law. The general purpose of this volume is the outlining of a

political economy which is natural and practical, rather than artificial and theoretical. While independent of professional methods, it aims to be usefully suggestive to the popular mind. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

#### Catalogue of the Library of the Late Charles S.

Hunt Forgotten Books

Excerpt from *First Principles of Political Economy* In writing this little book my aim has not been to give an outline of economic science, and still less to compile a text-book for students. I have written it for those who have never studied political economy, and I wish simply to inspire them with the desire to do so. Consequently they will find here scarcely any definitions or discussions or descriptions of actual problems, but merely a few sketches of primitive sociological ideas in their origin and development, showing how they have gradually taken shape in the minds of men and have been worked out in their institutions. There are not more than a dozen of these ideas which constitute the groundwork of political economy. My thanks are due to Mr Row, whose translation is both faithful and elegant. A few passages of the original French have been modified to make them more intelligible to the English reader where facts had been illustrated by examples referring specially to France. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

#### On the Rare Earth Frontier Cornell

University Press

The contributors argue that rare earths are essential to the information technology revolution on which humans have come to depend for communication, commerce, and, increasingly, engage in conflict. They demonstrate that rare earths are a strategic commodity over which political actors will and do struggle for control.

#### A Theory of Productive Power Emerald Group Publishing

Excerpt from *An Introduction to Political Economy* It has seemed to the author that one difficulty with many economic treatises is that

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they have no one clear aim, that they are, so to speak, straddles. This difficulty he is seeking to avoid, and consequently he has had only one class in mind in this revision. It is first of all the general reader for whom the book is designed, and it is the general reader whose needs have been kept constantly in view. For him it primarily exists, and to his requirements have been entirely subordinated all considerations based on its possible use as a text-book. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

Paths to a Green World The Political Economy of the Global Environment Cambridge

University Press

Multi-disciplinary examination of the role of ordinary African people as agents in the generation and distribution of well-being in modern Africa.