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Titolo	Educational leadership for a more sustainable world / / Mike Bottery
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Changing the nature of educational leadershipConclusion: Tame, wicked and humble leadership; CHAPTER FOUR Efficiency, Sufficiency and Educational Leadership; Introduction; Efficiency as an unsustainable concept; Efficiency in a wider societal role; Sufficiency as an imperative value; Sufficiency as a necessary but not a sufficient condition; Sustainability, sufficiency and changing leadership values; As many problems as answers; or as many answers as problems?; Reflecting on macro-problems; PART TWO Global Drivers of Unsustainability ; CHAPTER FIVE Cultures of Economic Growth and Consumption
Introduction: Consumption, storage and clutterEconomic imperialism?; The concept of economic growth; (a) Description or prescription; (b) Do people always choose to consume, or are they persuaded into believing they must?; (c) What threats are posed by making consumerism a primary personal and social goal?; Final thoughts: Is consumption then really that good, or are there other goods more worth having?; CHAPTER SIX Global Energy Challenges; Introduction: Raising the flag; Is the challenge one of energy supplies, or one of EROI?; How quickly are we moving from 'easy' to 'tough' energy?
It's not what's there, it's what you can access . . .International problems and national energy security; The future of unconventional energy sources; A super-wicked problem requiring a super-wicked response?; Energy trends, climate change and educational involvement; Energy and the impact on education; Educational localization; Final thoughts; CHAPTER SEVEN Climate Change and the Assessment of Evidence; Introduction; The problem of climate change from different perspectives; The role of the economist in climate change; Fuel usage, greenhouse gases and climate change
Further confirmatory evidence

Sommario/riassunto

"Educational Leadership for a More Sustainable World argues that current crises in educational policies and practice, including the recruitment and retention of educational leaders, ultimately derive from the interactions between four key challenges which also underpin current global and societal issues of sustainability: A culture of consumption Global energy demands Climate change Emerging population patterns Mike Bottery argues that problems in dealing with these four global challenges, as well as many crises in education, are in large part due to a failure to appreciate their complex interactions and effects, and of the need for sufficiently complex responses. The result is that many policies in many areas hinder rather than facilitate appropriate solutions. However, by showing that the dynamics of crises in educational sustainability have many similarities to those of global systems, this book argues that the adoption of a number of core practices and values can help educational leaders develop greater sustainability, not only in their own area of activity but can also help them make a valuable contribution to greater sustainability at the global level as well"--

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Autore	Henke Kevin R
Titolo	Arsenic [[electronic resource]] : environmental chemistry, health threats, and waste treatment / / edited by Kevin Henke
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Nota di contenuto	Arsenic; Contents; List of contributors; Preface; 1. Introduction; 1.1 Arsenic origin, chemistry, and use; 1.2 Arsenic environmental impacts; 1.3 Arsenic toxicity; 1.4 Arsenic treatment and remediation; 1.4.1 Introduction; 1.4.2 Treatment and remediation of water; 1.4.3 Treatment and remediation of solid wastes, soils, and sediments; 1.4.4 Treatment of flue gases; References; 2. Arsenic Chemistry; 2.1 Introduction; 2.2 Atomic structure and isotopes of arsenic; 2.3 Arsenic valence state and bonding; 2.4 Chemistry of arsenic solids; 2.4.1 Elemental arsenic 2.4.2 Common arsenic minerals and other solid arsenic compounds2. 4.3 Arsine and other volatile arsenic compounds; 2.4.4 Organoarsenicals; 2.5 Introduction to arsenic oxidation and reduction; 2.5.1 Arsenic oxidation; 2.5.2 Arsenic reduction; 2.6 Introduction to arsenic methylation and demethylation; 2.7 Arsenic in water; 2.7.1 Introduction; 2.7.2 Aqueous solubility of arsenic compounds and

thermodynamics; 2.7.3 Dissolved arsenic species; 2.7.4 Dissociation of arsenious and arsenic acids; 2.7.5 Eh-pH diagrams, and their limitations
2.7.6 Sorption, ion exchange, precipitation, and coprecipitation of arsenic in water2.8 Chemistry of gaseous arsenic emissions; References; 3 Arsenic in Natural Environments; 3.1 Introduction; 3.2 Nucleosynthesis: the origin of arsenic; 3.2.1 The Big Bang; 3.2.2 Arsenic formation in stars; 3.3 Arsenic in the universe as a whole; 3.4 Arsenic chemistry of the solar system; 3.4.1 Arsenic in the Sun, Moon, and planets; 3.4.2 Arsenic in meteorites and tektites; 3.5 Arsenic in the bulk Earth, crusts, and interior
3.5.1 Estimating arsenic concentrations of the bulk Earth and the Earth's core and mantle3.5.2 The core; 3.5.3 The mantle; 3.5.4 The Earth's crusts; 3.6 Arsenic in hydrothermal and geothermal fluids and their deposits; 3.6.1 Introduction; 3.6.2 Origins of hydrothermal fluids and their arsenic; 3.6.3 Arsenic chemistry of hydrothermal fluids; 3.6.4 Arsenic mineralogy of hydrothermal deposits; 3.6.5 Surface and near-surface oxidation of hydrothermal arsenic; 3.6.6 Arsenic chemistry in hot springs; 3.6.7 Arsenic in geothermal power plant scales; 3.6.8 Arsenic in volcanic gas emissions
3.6.9 Environmental impacts of arsenic in hydrothermal and geothermal fluids3.7 Oxidation of arsenic-bearing sulfides in geologic materials and mining wastes; 3.7.1 Oxidation of sulfide minerals; 3.7.2 Factors influencing the oxidation of arsenic-bearing sulfide minerals; 3.7.3 Environmental consequences of sulfide and arsenic oxidation; 3.7.4 Oxidation chemistry of major arsenic-bearing sulfides; 3.8 Interactions between arsenic and natural organic matter (NOM); 3.9 Sorption and coprecipitation of arsenic with iron and other (oxy)(hydr) oxides; 3.9.1 Introduction
3.9.2 Iron, aluminum, and manganese (oxy)(hydr)oxides

Sommario/riassunto

This book presents an overview of the chemistry, geology, toxicology and environmental impacts of arsenic, presenting information on relatively common arsenic minerals and their key properties. In addition, it includes discussions on the environmental impacts of the release of arsenic from mining and coal combustion. Although the environmental regulations of different nations vary and change over time, prominent International, North American, and European guidelines and regulations on arsenic will be reviewed. Includes information on recent environmental catastrophes