1. Record Nr. UNINA9910457906003321 Autore Rankin W. J Titolo Minerals, metals and sustainability [[electronic resource]]: meeting future material needs / / by W.J. Rankin Pubbl/distr/stampa Collingwood, Vic., : CSIRO Pub. Leiden, : CRC, c2011 **ISBN** 1-5231-0940-8 1-283-26984-8 9786613269843 0-643-09727-9 Descrizione fisica 1 online resource (441 p.) Disciplina 333.85 Soggetti Mines and mineral resources - Management Mineral industries - Management Mineral industries - Environmental aspects Sustainability Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Cover; Contents; Preface; Acknowledgements; 1Introduction; 2Materials and the materials cycle; 2.1 Natural resources; 2.2 Materials, goods and services; 2.3 The material groups; 2.3.1 Biomass; 2.3.2 Plastics; 2.3.3 Metals and alloys; 2.3.4 Silicates and other inorganic compounds; 2.4 The materials cycle; 2.5 The recyclability of materials; 2.6 Quantifying the materials cycle; 2.6.1 Materials and energy balances; 2.6.2 Material flow analysis; 2.7 References; 2.8 Useful sources of information; 3An introduction to Earth; 3.1 The crust; 3.2 The hydrosphere and biosphere; 3.2.1 Life on Earth 3.2.2 The Earth's biomes3.2.3 Ecosystem services; 3.3 Some implications of the basic laws of science; 3.3.1 Thermal energy flows to the biosphere and hydrosphere; 3.3.2 The greenhouse effect; 3.3.3 The

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Sommario/riassunto

Examines the role of minerals in modern society and the implications of sustainable development for the minerals industry.