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in this book the first dedicated entirely to the petrology of lamproites and their relationships to other potassium rich rocks the objective of the authors is to provide a comprehensive critical review of the occurrence mineralogy geochemistry and petrogenesis of the clan although lamproites represent one of the rarest of all rock types they are both economically and scientifically important and we believe the time is ripe for a review of the advances made in their petrology over the past two decades many of these advances stem from the recognition of diamond bearing lamproites in western australia and the reclassification of several anomalous diamond bearing kimberlites as lamproites consequently lamproites previously of interest only to a small number of mineralogists specializing in exotica outside the mainstream of igneous petrology have become prime targets for diamond exploration on a worldwide basis contemporaneously with these developments petrologists realized that lamproites possess isotopic signatures complementary to those of midoceanic ridge basalts alkali basalts kimberlites and other mantle

derived melts these isotopic studies provided new insights into the long term development of the mantle by suggesting that the source regions of lamproites were metasomatically enriched in light rare earth and other incompatible elements up to 1 2 ga prior to the melting events leading to generation of the magma

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paleoproterozoic to cenozoic lamprophyres lamproites and related rock types e g orangeites kimberlites are volatile rich mafic magmatic rocks with a unique potential for the investigation of processes affecting mantle reservoirs they originated from primary mantle derived melts that intruded both cratons and off craton regions which were parts of former supercontinents columbia rodinia and gondwana pangea well known for hosting economic minerals and elements such as diamonds base metals gold and platinum group elements they are also significant for our understanding of deep mantle processes such as mantle metasomatism and mantle plume lithosphere interactions as well as large scale geodynamic processes such as subduction related tectonics and supercontinent amalgamation and break up this book aims to provide a timely overview of the state of the art and recent advances as achieved by various research groups around the world mineralogical geochemical geochronological and isotope analyses are used to decipher the complex petrogenesis and metallogenesis of these extraordinary rocks and unravel a complete history of tectonic events related to individual supercontinent cycles

encyclopedia of geology second edition presents in six volumes state of the art reviews on the various aspects of geologic research all of which have moved on considerably since the writing of the first edition new areas of discussion include extinctions origins of life plate tectonics and its influence on faunal provinces new types of mineral and hydrocarbon deposits new methods of dating rocks and geological processes users will find this to be a fundamental resource for teachers and students of geology as well as researchers and non geology professionals seeking up to date reviews of geologic research provides a comprehensive and accessible one stop shop for information on the subject of geology explaining methodologies and technical jargon used in the field highlights connections between geology and other physical and biological sciences tackling research problems that span multiple fields fills a critical gap of information in a field that has seen significant progress in past years presents an ideal reference for a wide range of scientists in earth and environmental areas of study

the canadian shield and adjacent areas underlain by cratonic rocks are a highly prospective geologic environment for diamonds this volume reviews the genesis of diamonds and the petrology of kimberlites and lamproites the major diamond bearing rock types it then describes diamond exploration techniques focusing on the use of indicator minerals as a means of identifying prospective areas topics covered include major element geochemistry of indicator minerals eclogitic paragenesis and trace element techniques the volume also discusses the indicator mineral geochemistry results from a study of 18 localities around the world in addition since conventional indicator mineral techniques are not always applicable to lamproite exploration alternative pathfinder minerals are reviewed

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