

Modern Approaches in Solid Earth Sciences

Ashoka G. Dessai

The Lithosphere Beneath the Indian Shield

A Geodynamic Perspective

 Springer

Bibliographic Information

Book Title

The Lithosphere Beneath the
Indian Shield

Book Subtitle

A Geodynamic Perspective

Authors

Ashoka G. Dessai

Series Title

Modern Approaches in Solid
Earth Sciences

DOI

<https://doi.org/10.1007/978-3-030-52942-0>

Publisher

Springer Cham

eBook Packages

Earth and Environmental
Science, Earth and
Environmental Science (R0)

Copyright Information

Springer Nature Switzerland AG
2021

Hardcover ISBN

978-3-030-52941-3

Published: 25 September 2020

Softcover ISBN

978-3-030-52944-4

Published: 27 September 2021

eBook ISBN

978-3-030-52942-0

Published: 24 September 2020

Series ISSN

1876-1682

Series E-ISSN

1876-1690

Edition Number

1

Number of Pages

XVIII, 259

Table of contents (6 chapters)

Front Matter

Pages i–xviii

Continental Lithosphere

Ashoka G. Dessai

Pages 1–51

Indian Shield

Ashoka G. Dessai

Pages 53–96

Xenolith Petrology

Ashoka G. Dessai

Pages 97–124

Xenolith Petrology

Chapter | First Online: 25 September 2020

pp 97–124 | [Cite this chapter](#)

Ashoka G. Dessai

 Part of the book series: [Modern Approaches in Solid Earth Sciences](#) ((MASE, volume 20))

 463 Accesses

Abstract

The xenoliths can be classified into two groups: (a) mantle xenoliths and (b) crustal xenoliths. On the basis of tectonic considerations, they belong to two geotectonic environments: (a) the circum-cratonic and (b) the cratonic. The former group is represented by xenoliths primarily in lamprophyre dykes and nephelinite plugs intrusive