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Information on this title: www.cambridge.org/9780521518017

DOI: 10.1017/9781139027748

First published 2023

A catalogue record for this publication is available from the British Library.

ISBN 978-0-521-51801-7 Hardback
ISBN 978-1-009-27892-8 Paperback

Additional resources for this publication at www.cambridge.org/isostasyandflexure2e.

The flexure of the lithosphere caused by the load of Miocene-Recent sediments in the Amazon deep-sea fan system, northeast Brazil. The sediment load has flexed the oceanic crust downwards by more than 2 km in offshore regions, and the continental crust upwards and downwards by up to 40 m in onshore regions. The flexures have had a significant impact on margin structure and stratigraphy offshore, and on landscape evolution and ecosystems onshore.