

**CAMBRIDGE MONOGRAPHS
ON MATHEMATICAL PHYSICS**
General Editors: D.W. Sciama, S. Weinberg, P.V. Landshoff

**THE LARGE SCALE STRUCTURE
OF SPACE-TIME**

THE LARGE SCALE STRUCTURE OF SPACE-TIME

S. W. HAWKING, F.R.S.

Lucasian Professor of Mathematics in the University of Cambridge and
Fellow of Gonville and Caius College

AND

G. F. R. ELLIS

Professor of Applied Mathematics, University of Cape Town



**CAMBRIDGE
UNIVERSITY PRESS**

CAMBRIDGE UNIVERSITY PRESS
Cambridge, New York, Melbourne, Madrid, Cape Town, Singapore, São Paulo

Cambridge University Press
40 West 20th Street, New York, NY 10011-4211, USA

www.cambridge.org
Information on this title: www.cambridge.org/9780521200165

© Cambridge University Press 1973

This publication is in copyright. Subject to statutory exception
and to the provisions of relevant collective licensing agreements,
no reproduction of any part may take place without
the written permission of Cambridge University Press.

First published 1973
First paperback edition 1974
20th printing 2006

Printed in the United States of America

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

ISBN-13 978-0-521-20016-5 hardback
ISBN-10 0-521-20016-4 hardback

ISBN-13 978-0-521-09906-6 paperback
ISBN-10 0-521-09906-4 paperback

Cambridge University Press has no responsibility for
the persistence or accuracy of URLs for external or
third-party Internet Web sites referred to in this publication
and does not guarantee that any content on such
Web sites is, or will remain, accurate or appropriate.

To
D. W. SCIAMA

