

Cambridge University Press
978-0-521-00935-5 - The Math Behind the Music
Leon Harkleroad
Copyright Information
[More information](#)

THE MATH BEHIND THE MUSIC

LEON HARKLEROAD



CAMBRIDGE
UNIVERSITY PRESS

Cambridge University Press
 978-0-521-00935-5 - The Math Behind the Music
 Leon Harkleroad
 Copyright Information
[More information](#)

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

Cambridge University Press
 32 Avenue of the Americas, New York, NY 10013-2473, USA
www.cambridge.org
 Information on this title: www.cambridge.org/9780521810951

Mathematical Association of America
 1529 Eighteenth St. NW, Washington, DC 20036, USA
www.maa.org

© Leon Harkleroad 2006

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 2006

Printed in the United States of America

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

Library of Congress Cataloging in Publication Data

Harkleroad, Leon, 1955–
 The math behind the music / Leon Harkleroad.
 p. cm. – (Outlooks)
 Includes index.
 ISBN-13: 978-0-521-81095-1 (hardback)
 ISBN-10: 0-521-81095-7 (hardback)
 ISBN-13: 978-0-521-00935-5 (pbk.)
 ISBN-10: 0-521-00935-9 (pbk.)
 1. Music in mathematics education. 2. Mathematics – Study and teaching.
 3. Music theory – Mathematics. 4. Music – Acoustics and physics. 5. Pattern
 formation (Physical sciences) 6. Composition (Music) I. Title. II. Series.
 QA19.M87H37 2006
 510–dc22 2006014720

ISBN-13 978-0-521-81095-1 hardback
 ISBN-10 0-521-81095-7 hardback

ISBN-13 978-0-521-00935-5 paperback
 ISBN-10 0-521-00935-9 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.

Page 137 constitutes a continuation of the copyright page