

# Stop Faking It!

Finally Understanding Science

So You Can Teach It

## LIGHT

**NSTA**press®

NATIONAL SCIENCE TEACHERS ASSOCIATION

Arlington, Virginia



NATIONAL SCIENCE TEACHERS ASSOCIATION

Claire Reinberg, Director  
Andrew Cocke, Associate Editor  
Judy Cusick, Associate Editor  
Carol Duval, Associate Editor  
Betty Smith, Associate Editor

ART AND DESIGN Linda Olliver, Director  
Brain Diskin, Illustrator

NSTA WEB Tim Weber, Webmaster

PERIODICALS PUBLISHING Shelley Carey, Director

PRINTING AND PRODUCTION Catherine Lorrain-Hale, Director  
Nguyet Tran, Assistant Production Manager  
Jack Parker, Desktop Publishing Specialist

PUBLICATIONS OPERATIONS Erin Miller, Manager

sciLINKS Tyson Brown, Manager

NATIONAL SCIENCE TEACHERS ASSOCIATION

Gerald F. Wheeler, Executive Director  
David Beacom, Publisher

Copyright © 2003 by the National Science Teachers Association.  
All rights reserved. Printed in the United States of America by Victor Graphics.

**Light: Stop Faking It!** *Finally Understanding Science So You Can Teach It*

NSTA Stock Number: PB169X3

05 04 03 4 3 2 1

Library of Congress Cataloging-in-Publication Data  
Robertson, William C.

Light.

p. cm. — (Stop faking it!)

ISBN 0-87355-215-61. Light—Study and teaching (Middle school) 2. Optics—Study and teaching (Middle school) I. Title.

QC363.R54 2003

535'.071'273—dc21

2003004143

*NSTA is committed to publishing quality materials that promote the best in inquiry-based science education. However, conditions of actual use may vary and the safety procedures and practices described in this book are intended to serve only as a guide. Additional precautionary measures may be required. NSTA and the author(s) do not warrant or represent that the procedure and practices in this book meet any safety code or standard or federal, state, or local regulations. NSTA and the author(s) disclaim any liability for personal injury or damage to property arising out of or relating to the use of this book including any recommendations, instructions, or materials contained therein.*

Permission is granted in advance for reproduction for purpose of classroom or workshop instruction. To request permission for other uses, send specific requests to: NSTA Press, 1840 Wilson Boulevard, Arlington, Virginia 22201-3000. Website: [www.nsta.org](http://www.nsta.org)



Featuring sciLINKS®—a new way of connecting text and the Internet. Up-to-the-minute online content, classroom ideas, and other materials are just a click away. Go to page x to learn more about this new educational resource.



























































