

LEARN PHYSICS WITH FUNCTIONAL PROGRAMMING. Copyright © 2023 by Scott N. Walck.

All rights reserved. No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage or retrieval system, without the prior written permission of the copyright owner and the publisher.

Printed in the United States of America

First printing

26 25 24 23 22 1 2 3 4 5

ISBN-13: 978-1-7185-0166-9 (print)

ISBN-13: 978-1-7185-0167-6 (ebook)

Publisher: William Pollock

Managing Editor: Jill Franklin

Production Manager: Sabrina Plomitallo-González

Production Editor: Miles Bond

Developmental Editor: Alex Freed

Cover Illustrator: Gina Redman

Interior Design: Octopod Studios

Technical Reviewer: Gregory Wright

Copyeditor: George Hale

Proofreader: Bart Reed

Indexer: Sanjiv Kumar Sinha

For information on distribution, bulk sales, corporate sales, or translations, please contact No Starch Press, Inc. directly at info@nostarch.com or:

No Starch Press, Inc.

245 8th Street, San Francisco, CA 94103

phone: 1.415.863.9900

www.nostarch.com

Library of Congress Cataloging-in-Publication Data

Names: Walck, Scott N., author.

Title: Learn physics with functional programming : a hands-on guide to exploring physics with Haskell / by Scott N. Walck.

Description: San Francisco : No Starch Press, [2023] | Includes bibliographical references and index.

Identifiers: LCCN 2022018706 (print) | LCCN 2022018707 (ebook) | ISBN 9781718501669 (print) | ISBN 9781718501676 (ebook)

Subjects: LCSH: Physics--Data processing. | Functional programming (Computer science)

Classification: LCC QC52 .W34 2023 (print) | LCC QC52 (ebook) | DDC 530.0285/5133--dc23/eng20220722

LC record available at <https://lccn.loc.gov/2022018706>

LC ebook record available at <https://lccn.loc.gov/2022018707>

No Starch Press and the No Starch Press logo are registered trademarks of No Starch Press, Inc. Other product and company names mentioned herein may be the trademarks of their respective owners. Rather than use a trademark symbol with every occurrence of a trademarked name, we are using the names only in an editorial fashion and to the benefit of the trademark owner, with no intention of infringement of the trademark.

The information in this book is distributed on an “As Is” basis, without warranty. While every precaution has been taken in the preparation of this work, neither the author nor No Starch Press, Inc. shall have any liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the information contained in it.

[S]