



SECOND EDITION

PHILIP CARR

**ENGLISH  
PHONETICS  
AND PHONOLOGY**  
AN INTRODUCTION

 WILEY-BLACKWELL

# Contents

## Sound Recordings

## Prefaces to the First Edition

## Preface to the Second Edition

## Acknowledgements

## Figure 1 The organs of speech

## Figure 2 The International Phonetic Alphabet

## 1 English Phonetics: Consonants (i)

### 1.1 Airstream and Articulation

### 1.2 Place of Articulation

### 1.3 Manner of Articulation Stops, Fricatives and Approximants

### Notes

### Exercises

## 2 English Phonetics: Consonants (ii)

### 2.1 Central vs Lateral

[2.2 Taps and Trills](#)

[2.3 Secondary Articulation](#)

[2.4 Affricates](#)

[2.5 Aspiration](#)

[2.6 Nasal Stops](#)

[Notes](#)

[Exercises](#)

### **[3 English Phonetics: Vowels \(i\)](#)**

[3.1 The Primary Cardinal Vowels](#)

[3.2 RP and GA Short Vowels](#)

[Exercises](#)

### **[4 English Phonetics: Vowels \(ii\)](#)**

[4.1 RP and GA Long Vowels](#)

[4.2 RP and GA Diphthongs](#)

[Notes](#)

[Exercises](#)

### **[5 The Phonemic Principle](#)**

[5.1 Introduction Linguistic Knowledge](#)

[5.2 Contrast vs Predictability: The Phoneme](#)

[5.3 Phonemes, Allophones and Contexts](#)

5.4 Summing Up

Notes

Exercises

## **6 English Phonemes**

6.1 English Consonant Phonemes

6.2 The Phonological Form of Morphemes

6.3 English Vowel Phonemes

Exercises

## **7 English Syllable Structure**

7.1 Introduction

7.2 Constituency in Syllable Structure

7.3 The Sonority Hierarchy, Maximal Onset  
and Syllable Weight

7.4 Language-Specific Phonotactics

7.5 Syllabic Consonants and Phonotactics

7.6 Syllable-Based Generalizations

7.7 Morphological Structure, Syllable  
Structure and Resyllabification

7.8 Summing Up

Exercises

## **8 Rhythm and Word Stress in English**

[8.1 The Rhythm of English](#)

[8.2 English Word Stress: Is It Entirely Random?](#)

[8.3 English Word Stress: Some General Principles](#)

[8.4 Word Stress Assignment in Morphologically Simple Words](#)

[8.5 Word Stress Assignment and Morphological Structure](#)

[8.6 Compound Words](#)

[8.7 Summing Up](#)

[Notes](#)

[Exercises](#)

## **[9 Rhythm, Reversal and Reduction](#)**

[9.1 More on the Trochaic Metrical Foot](#)

[9.2 Representing Metrical Structure](#)

[9.3 Phonological Generalizations and Foot Structure](#)

[9.4 The Rhythm of English Again: Stress Timing and Eurhythmy](#)

[Notes](#)

[Exercises](#)

## **10 English Intonation**

10.1 Tonic Syllables, Tones and Intonation Phrases

10.2 Departures from the LLI Rule

10.3 IPs and Syntactic Units

10.4 Tonic Placement, IP Boundaries and Syntax

10.5 Tones and Syntax

10.6 Tonic Placement and Discourse Context

10.7 Summing Up Exercises

## **11 Graphophonemics Spelling–Pronunciation Relations**

11.1 Introduction

11.2 Vowel Graphemes and Their Phonemic Values

11.3 Consonant Graphemes and Their Phonemic Values

Exercises

## **12 Variation in English Accents**

[12.1 Introduction](#)

[12.2 Systemic vs Realizational Differences between Accents](#)

[12.3 Perceptual and Articulatory Space](#)

[12.4 Differences in the Lexical Distribution of Phonemes](#)

[Notes](#)

[Exercises](#)

## **[13 An Outline of Some Accents of English](#)**

[13.1 Some British Accents](#)

[13.2 Two American Accents](#)

[13.3 Two Southern Hemisphere Accents](#)

[13.4 An Overview of Some Common Phenomena Found in Accent Variation](#)

[Notes](#)

[Exercises](#)

[References](#)

[Suggested Further Reading](#)

[Index](#)

# English Phonetics and Phonology

*An Introduction*

Second Edition

Philip Carr

 **WILEY-BLACKWELL**  
A John Wiley & Sons, Ltd., Publication





This second edition first published 2013  
© 2013 Philip Carr

Edition History: Blackwell Publishing Ltd (1e, 1999)

Blackwell Publishing was acquired by John Wiley & Sons in February 2007. Blackwell's publishing program has been merged with Wiley's global Scientific, Technical, and Medical business to form Wiley-Blackwell.

*Registered Office*

John Wiley & Sons Ltd, The Atrium, Southern Gate,  
Chichester, West Sussex, PO19 8SQ, UK

*Editorial Offices*

350 Main Street, Malden, MA 02148-5020, USA

9600 Garsington Road, Oxford, OX4 2DQ, UK

The Atrium, Southern Gate, Chichester, West Sussex, PO19  
8SQ, UK

For details of our global editorial offices, for customer services, and for information about how to apply for permission to reuse the copyright material in this book please see our website at [www.wiley.com/wiley-blackwell](http://www.wiley.com/wiley-blackwell).

The right of Philip Carr to be identified as the author of this work has been asserted in accordance with the UK Copyright, Designs and Patents Act 1988.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, except as permitted by the UK Copyright, Designs and Patents Act 1988, without the prior permission of the publisher.

Wiley also publishes its books in a variety of electronic formats. Some content that appears in print may not be available in electronic books.

Designations used by companies to distinguish their products are often claimed as trademarks. All brand names and product names used in this book are trade names, service marks, trademarks or registered trademarks of their respective owners. The publisher is not associated with any product or vendor mentioned in this book. This publication is designed to provide accurate and authoritative information in regard to the subject matter covered. It is sold on the understanding that the publisher is not engaged in rendering professional services. If professional advice or other expert assistance is required, the services of a competent professional should be sought.

*Library of Congress Cataloging-in-Publication Data*

Carr, Philip, 1953–

English phonetics and phonology : an introduction / Philip Carr.  
— Second edition.

pages cm

Includes bibliographical references and index.

ISBN 978-1-4051-3454-5

1. English language—Phonology. 2. English language—Phonetics.

PE1133.C34 2013

421'.5—dc23

2012005351

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

Cover image: Patrick Henry Bruce, *Peinture/Nature Morte*, c.

1925–6. Corcoran Gallery of Art, Washington, D.C. Photo ©  
SuperStock.

Cover design by Simon Levy.

1 2013