

*SOLUTIONS TO SELECTED
EXERCISES IN*

THE LOGIC BOOK

Fifth Edition

MERRIE BERGMANN *Smith College*

JAMES MOOR *Dartmouth College*

JACK NELSON *Arizona State University*



Higher Education

Boston Burr Ridge, IL Dubuque, IA New York
San Francisco St. Louis Bangkok Bogotá Caracas Kuala Lumpur
Lisbon London Madrid Mexico City Milan Montreal New Delhi
Santiago Seoul Singapore Sydney Taipei Toronto



Higher Education

Solutions to Selected Exercises in

THE LOGIC BOOK

Merrie Bergmann

James Moor

Jack Nelson

Published by McGraw-Hill, an imprint of The McGraw-Hill Companies, Inc., 1221 Avenue of the Americas, New York, NY 10020. Copyright © 2009, 2004, 1998, 1990, 1980 by The McGraw-Hill Companies, Inc. All rights reserved.

No part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written consent of The McGraw-Hill Companies, Inc., including, but not limited to, in any network or other electronic storage or transmission, or broadcast for distance learning.

1 2 3 4 5 6 7 8 9 0 EVA/EVA 0 9 8 7 6 5 4 3

ISBN 0-07-334314-5

Vice president and Editor-in-chief: *Michael Ryan*

Publisher: *Beth Mejia*

Sponsoring editor: *Mark Georgiev*

Editorial assistant: *Briana Porco*

Marketing manager: *Pamela S. Cooper*

Production editor: *Leslie LaDow*

Media project manager: *Thomas Brierly*

Production supervisor: *Tandra Jorgensen*

Composer: *Aptara[®], Inc.*

Typeface: *10/12 New Baskerville*

CONTENTS

SOLUTIONS TO CHAPTER 1	1
SOLUTIONS TO CHAPTER 2	10
SOLUTIONS TO CHAPTER 3	20
SOLUTIONS TO CHAPTER 4	40
SOLUTIONS TO CHAPTER 5	88
SOLUTIONS TO CHAPTER 6	134
SOLUTIONS TO CHAPTER 7	148
SOLUTIONS TO CHAPTER 8	162
SOLUTIONS TO CHAPTER 9	198
SOLUTIONS TO CHAPTER 10	266
SOLUTIONS TO CHAPTER 11	310