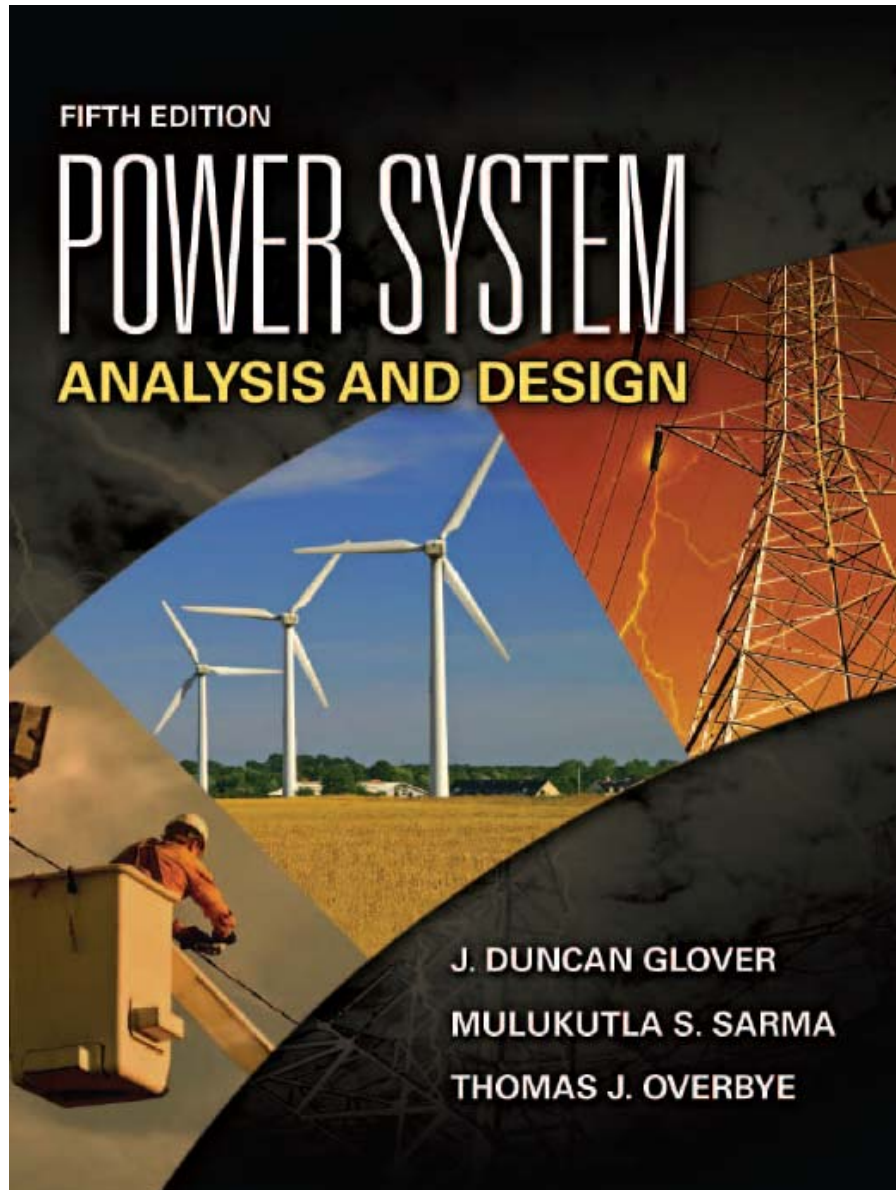


download instant at <http://testbankinstant.com>

An Instructor's Solutions Manual to Accompany
POWER SYSTEM ANALYSIS AND DESIGN, 5TH EDITION

J. DUNCAN GLOVER
MULUKUTLA S. SARMA
THOMAS J. OVERBYE



 CENGAGE
Learning™



© 2012, 2008 Cengage Learning

ALL RIGHTS RESERVED. No part of this work covered by the copyright herein may be reproduced, transmitted, stored, or used in any form or by any means graphic, electronic, or mechanical, including but not limited to photocopying, recording, scanning, digitizing, taping, Web distribution, information networks, or information storage and retrieval systems, except as permitted under Section 107 or 108 of the 1976 United States Copyright Act, without the prior written permission of the publisher except as may be permitted by the license terms below.

For product information and technology assistance, contact us at
Cengage Learning Academic Resource Center,
1-800-423-0563.

For permission to use material from this text or product, submit all requests online at www.cengage.com/permissions. Further permissions questions can be emailed to permissionrequest@cengage.com.

ISBN-13: 978-1-111-42578-4
ISBN-10: 1-111-42578-7

Cengage Learning
200 First Stamford Place, Suite 400
Stamford, CT 06902
USA

Cengage Learning is a leading provider of customized learning solutions with office locations around the globe, including Singapore, the United Kingdom, Australia, Mexico, Brazil, and Japan. Locate your local office at: international.cengage.com/region.

Cengage Learning products are represented in Canada by Nelson Education, Ltd.

For your course and learning solutions, visit www.cengage.com/engineering.

Purchase any of our products at your local college store or at our preferred online store www.cengagebrain.com.

NOTE: UNDER NO CIRCUMSTANCES MAY THIS MATERIAL OR ANY PORTION THEREOF BE SOLD, LICENSED, AUCTIONED, OR OTHERWISE REDISTRIBUTED EXCEPT AS MAY BE PERMITTED BY THE LICENSE TERMS HEREIN.

READ IMPORTANT LICENSE INFORMATION

Dear Professor or Other Supplement Recipient:

Cengage Learning has provided you with this product (the "Supplement") for your review and, to the extent that you adopt the associated textbook for use in connection with your course (the "Course"), you and your students who purchase the textbook may use the Supplement as described below. Cengage Learning has established these use limitations in response to concerns raised by authors, professors, and other users regarding the pedagogical problems stemming from unlimited distribution of Supplements.

Cengage Learning hereby grants you a nontransferable license to use the Supplement in connection with the Course, subject to the following conditions. The Supplement is for your personal, noncommercial use only and may not be reproduced, posted electronically or distributed, except that portions of the Supplement may be provided to your students IN PRINT FORM ONLY in connection with your instruction of the Course, so long as such students are advised that they may not copy or distribute any portion of the Supplement to any third party. Test banks and other testing materials may be made available in the classroom and collected at the end of each class session, or

posted electronically as described herein. Any material posted electronically must be through a password-protected site, with all copy and download functionality disabled, and accessible solely by your students who have purchased the associated textbook for the Course. You may not sell, license, auction, or otherwise redistribute the Supplement in any form. We ask that you take reasonable steps to protect the Supplement from unauthorized use, reproduction, or distribution. Your use of the Supplement indicates your acceptance of the conditions set forth in this Agreement. If you do not accept these conditions, you must return the Supplement unused within 30 days of receipt.

All rights (including without limitation, copyrights, patents, and trade secrets) in the Supplement are and will remain the sole and exclusive property of Cengage Learning and/or its licensors. The Supplement is furnished by Cengage Learning on an "as is" basis without any warranties, express or implied. This Agreement will be governed by and construed pursuant to the laws of the State of New York, without regard to such State's conflict of law rules.

Thank you for your assistance in helping to safeguard the integrity of the content contained in this Supplement. We trust you find the Supplement a useful teaching tool.

download instant at <http://testbankinstant.com>

INSTRUCTOR'S SOLUTIONS MANUAL
TO ACCOMPANY

POWER SYSTEM ANALYSIS AND DESIGN

FIFTH EDITION

J. DUNCAN GLOVER
MULUKUTLA S. SARMA
THOMAS J. OVERBYE

download instant at <http://testbankinstant.com>

Contents

Chapter 2	1
Chapter 3	27
Chapter 4	71
Chapter 5	95
Chapter 6	137
Chapter 7	175
Chapter 8	195
Chapter 9	231
Chapter 10	303
Chapter 11	323
Chapter 12	339
Chapter 13	353
Chapter 14	379

download instant at <http://testbankinstant.com>