DEWITT'S MEDICAL -SURGICAL NURSING CONCEPTS 3RD EDITION EXAM Questions and Answers Latest Versions 2025 GRADED A+

Chapter 01: Care of Patients with Cognitive Disorders deWit: Medical-Surgical Nursing: Concepts & Practice, 3rd Edition

MULTIPLE CHOICE

ANS: D

AD is the most common degenerative disease of the brain. Approximately 5.3 million Americans have AD (Alzheimer Association, 2010), and there is no known cause or cure. AD typically affects people over 65 years of age, but can also strike younger people. The 85-year-old and over age group is currently the fastest-growing age group in the United States. It is estimated that 50% of this age group have AD.

PIS: I DIF: Cognitive Level: 1094

OBJ: 1 (theory) AD: Incidence TOP: Incidence Planning MSC: NCLEX: Health Promotion and Maintenance

An 85-year-old man is admitted to the hospital with gastroenteritis and dehydration. He receives a dose of meclizine hydrochloride, an anticholinergic, for vomiting. He begins to hallucinate and talk to his wife, who has been dead for 10 years. Which explanation best describes this behavior?

a. Dementia related to advanced age

Delirium related to dehydration

c. Dementia related to early Alzheimer's disease (AD)

Delirium related to side effect of anticholinergic

ANS: D

Anticholinergic drugs can cause sudden confusion in older adults. There is nothing in the history that suggests that the behavior would be related to AD or any other dementia as dementias progress slowly. Dehydration would increase the effect of the anticholinergic.

P1S: I DIF: Cognitive Level: REF: 1093
OBJ: 2 (theory) Delirium:
TOP: Etiology
KEY: Nursing Process Step: MSC: NCLEX: Health Promotion and Maintenance

The nurse is aware that the older adult is at risk for drug-induced delirium. Which age-related change

Medical Surgical Nursing Dewitt Study Guide Answers

Holly Stromberg

Medical Surgical Nursing Dewitt Study Guide Answers:

Study Guide Medical-surgical Nursing Susan C. DeWit, 2013 Dewit's Medical-surgical Nursing Holly Study Guide for Brunner & Suddarth's Textbook of Medical-Surgical Nursing Janice L. Stromberg, 2020-03 Hinkle, Kerry H. Cheever, 2013-11-25 The perfect companion to Brunner Suddarth's Textbook of Medical Surgical Nursing this exemplary study tool helps you better understand the concepts disease processes and nursing care detailed in the textbook Designed to help you review and apply important concepts from the textbook to prepare for exams as well as for your nursing career each fully revised chapter includes three sections Assessing Your Understanding including fill in the blank short answer and matching questions Applying Your Knowledge comprised of case based questions and Practicing for NCLEX containing both multiple choice and alternate format NCLEX style questions An Answer Key is included at the end of Medical-Surgical Nursing - Text and Study Guide Package Susan C. deWit, Candice K. Kumagai, 2012-02-28 This convenient money saving package is a must have for nursing students It includes deWit s Medical Surgical Nursing 1st edition text and deWit's Student Learning Guide for Medical Surgical Nursing Medical-Surgical Nursing Susan C. DeWit, 2012-02-24 Designed for use with Medical Surgical Nursing Concepts Practice 2nd Edition this study guide provides an in depth review of the most important concepts in the text It features a clear friendly writing style creative practice exercises and activities and unique Steps to Better Communication sections in each chapter Review Questions for the NCLEX Examination which include alternate item format questions test your knowledge of chapter content while providing valuable practice for the licensure exam Critical Thinking activities based on concepts in the textbook encourage you to apply what you ve learned to clinical scenarios Application of the Nursing Process and Priority Setting exercises reflect real life patient care situations to help you prepare for success on exams and in clinical practice UNIQUE Steps Toward Better Communication sections include a vocabulary building glossary completion tasks pronunciation and grammar exercises and communication exercises Textbook page references throughout guide you to relevant content in the textbook for further study To the Student preface offers valuable study hints and tips National Medical Audiovisual Center Catalog National Medical Audiovisual Center, 1974 Films for the health sciences Study Guide for Medical-Surgical Nursing - E-Book Sharon L. Lewis, Susan A. Sandstrom, Linda Bucher, Mariann M. Harding, Margaret M. Heitkemper, Jeffrey Kwong, Dottie Roberts, 2016-09-07 Prepare for success in the classroom Corresponding to the chapters in the 10th edition of Lewis market leading text Medical Surgical Nursing Assessment and Management of Clinical Problems this study guide offers a complete review of content and a wide range of activities to help you understand key nursing concepts Alternate item format questions reflect the most current NCLEX test plan And to make studying easier answers for all exercises are included in the back of the book A wide variety of clinically relevant exercises and activities including NCLEX examination style multiple choice questions prioritization and delegation questions and case studies help you learn

the material Answers to all questions in the back of the book provide you with immediate feedback as you study Additional alternate item format questions prepare you for the most current NCLEX exam NEW Attractive four color design ties the study guide to the textbook Study Guide for Brunner & Suddarth's Textbook of Medical-Surgical Nursing Janice

Hinkle,2021-07-19 Help students make the most of what they ve learned in Brunner Suddarth's Textbook of Medical Surgical Nursing 15th Edition with this easy to use study companion Updated to reflect the latest textbook material this Study Guide provides everything students need to assess their understanding and practice applying their knowledge preparing them for success in your class on the NCLEX exam and in nursing practice

Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70

Study Guide for Medical-surgical Nursing Sharon L. Lewis, 2016

New Orleans Medical and Surgical Journal ,1910 Workbook for Timby's Introductory Medical-Surgical Nursing
Loretta A. Donnelly-Moreno, Brigitte Moseley, Habiba F.F. Harris, 2022-08-16 Developed in conjunction with Timby s
Introductory Medical Surgical Nursing Practice 13th Edition this proven practical Workbook for Timby s Introductory
Medical Surgical Nursing Practice equips students with the retention and practice to succeed on the NCLEX and in today s
medical surgical nursing workforce Packed with engaging review questions and exercises each chapter reinforces key
textbook principles challenges students to apply their knowledge and delivers unparalleled practice for the NCLEX PN

The New Orleans Medical and Surgical Journal, 1911 Study Guide for Introduction to Medical-Surgical Nursing -E-Book Adrianne Dill Linton, Nancy K. Maebius, 2013-10-30 Student friendly and easy to use the Study Guide for Introduction to Medical Surgical Nursing 5th Edition is designed to help you master content and evaluate your progress through practical useful exercises and activities including a wealth of multiple choice and alternate format questions This edition places an increased emphasis on higher level application questions including exercises to encourage practice in setting priorities to prepare you to transfer your knowledge of medical surgical concepts to patient care in the clinical setting Helps you hone critical thinking skills essential for success on licensure exams and in clinical practice Reinforces textbook content and provides ample opportunity for self assessment with a wide variety of learning activities including matching key term and vocabulary review completion listing labeling illustrations ranking ordering and application questions for textbook nursing care plans Includes textbook page references making self assessment easier and faster Emphasizes application of nursing concepts with new knowledge and comprehension exercises and activities that ask you to apply your knowledge to patient care situations Features a new section at the end of each chapter Challenge Yourself Getting Ready for the NCLEX includes both standard multiple choice and alternate format questions over 1 800 that test your knowledge of chapter content while providing practice for the Boards Provides valuable practice in prioritizing deciding what to do first and assignment giving specific tasks to health care providers who may be supervised by LPNs skills that are essential for providing effective nursing care and are covered on the NCLEX PN Examination Links you to online Evolve resources where you ll find an additional set

of review questions encouraging utilization of and familiarity with an electronic format The American Journal of Study Guide for Understanding Medical-Surgical Nursing Mr. Rohit Manglik, 2024-07-30 This guide Nursing .1951 supports learning in medical surgical nursing through summaries case studies and self assessment tools that reinforce core concepts and clinical decision making skills **Brunner and Suddarth's Textbook of Medical-Surgical Nursing Mary Jo** Bover, 2010 The perfect companion to Brunner and Suddarth's Textbook of Medical Surgical Nursing this exemplary study tool helps you better understand the concepts techniques and disease processes detailed in the textbook for Medical-Surgical Nursing Susan A. Sandstrom, Sharon L. Lewis, Margaret McLean Heitkemper, RN Ph.D., Shannon Ruff Dirksen, 2013-12-02 Prepare for success in the classroom Corresponding to the chapters in the 9th edition of Lewis market leadingMedical Surgical Nursing this study guide offers a complete review of content and a wide range of activities to help you understand key nursing concepts Alternate item format questions reflect the most current NCLEX test plan To make studying easier answers for all exercises are included in the back of the book A wide variety of clinically relevant exercises and activities includes NCLEX examination style multiple choice questions prioritization and delegation questions case studies fill in the blank questions anatomy and physiology review critical thinking activities and more Answers to all questions are included in the back of the book giving you immediate feedback as you study Additional alternate item format questions incorporating prioritization and delegation are included to better prepare you for the most current NCLEX exam Attractive two color design ties the study guide to the textbook Study Guide for Medical-Surgical Nursing Sharon Lewis,2016-10-17 Study Guide for Introduction to Medical-Surgical Nursing Adrianne Dill Linton, Nancy K. Maebius, 2007 Study Guide based on the textbook chapter objectives is designed to assist students in mastering the content presented in the text and includes learning activities multiple choice questions and page references for each question Includes listing matching labeling completion and multiple choice exercises Text page references accompany each question

Fuel your quest for knowledge with Authored by is thought-provoking masterpiece, Explore **Medical Surgical Nursing Dewitt Study Guide Answers**. This educational ebook, conveniently sized in PDF (*), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons.

https://splashdogs.com/data/browse/HomePages/how%20to%20remove%20snails%20from%20aquarium.pdf

Table of Contents Medical Surgical Nursing Dewitt Study Guide Answers

- 1. Understanding the eBook Medical Surgical Nursing Dewitt Study Guide Answers
 - The Rise of Digital Reading Medical Surgical Nursing Dewitt Study Guide Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Medical Surgical Nursing Dewitt Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Medical Surgical Nursing Dewitt Study Guide Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Medical Surgical Nursing Dewitt Study Guide Answers
 - Personalized Recommendations
 - Medical Surgical Nursing Dewitt Study Guide Answers User Reviews and Ratings
 - Medical Surgical Nursing Dewitt Study Guide Answers and Bestseller Lists
- 5. Accessing Medical Surgical Nursing Dewitt Study Guide Answers Free and Paid eBooks
 - Medical Surgical Nursing Dewitt Study Guide Answers Public Domain eBooks
 - Medical Surgical Nursing Dewitt Study Guide Answers eBook Subscription Services
 - Medical Surgical Nursing Dewitt Study Guide Answers Budget-Friendly Options

- 6. Navigating Medical Surgical Nursing Dewitt Study Guide Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Medical Surgical Nursing Dewitt Study Guide Answers Compatibility with Devices
 - Medical Surgical Nursing Dewitt Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Medical Surgical Nursing Dewitt Study Guide Answers
 - Highlighting and Note-Taking Medical Surgical Nursing Dewitt Study Guide Answers
 - Interactive Elements Medical Surgical Nursing Dewitt Study Guide Answers
- 8. Staying Engaged with Medical Surgical Nursing Dewitt Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Medical Surgical Nursing Dewitt Study Guide Answers
- 9. Balancing eBooks and Physical Books Medical Surgical Nursing Dewitt Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Medical Surgical Nursing Dewitt Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Medical Surgical Nursing Dewitt Study Guide Answers
 - Setting Reading Goals Medical Surgical Nursing Dewitt Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Medical Surgical Nursing Dewitt Study Guide Answers
 - Fact-Checking eBook Content of Medical Surgical Nursing Dewitt Study Guide Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

• Interactive and Gamified eBooks

Medical Surgical Nursing Dewitt Study Guide Answers Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Medical Surgical Nursing Dewitt Study Guide Answers free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Medical Surgical Nursing Dewitt Study Guide Answers free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Medical Surgical Nursing Dewitt Study Guide Answers free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but its essential to be cautious and verify the authenticity of the source before downloading Medical Surgical Nursing Dewitt Study Guide Answers. In conclusion, the internet offers numerous

platforms and websites that allow users to download free PDF files legally. Whether its classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading Medical Surgical Nursing Dewitt Study Guide Answers any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Medical Surgical Nursing Dewitt Study Guide Answers Books

- 1. Where can I buy Medical Surgical Nursing Dewitt Study Guide Answers books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
- 2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
- 3. How do I choose a Medical Surgical Nursing Dewitt Study Guide Answers book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
- 4. How do I take care of Medical Surgical Nursing Dewitt Study Guide Answers books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
- 5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
- 6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
- 7. What are Medical Surgical Nursing Dewitt Study Guide Answers audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
- 8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores.

- Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
- 9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
- 10. Can I read Medical Surgical Nursing Dewitt Study Guide Answers books for free? Public Domain Books: Many classic books are available for free as theyre in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Medical Surgical Nursing Dewitt Study Guide Answers:

how to remove snails from aquarium

how to grade test papers

how to make a recipe book

how to reset time for regular service volvo s60

how to remove apps from kindle fire carousel

how to reset maintenance light on 2003 toyota 4runner

how to introduce yourself on paper examples

how to reset mercedes headrest

how to install car radio wire harness

how to make guacamole

how to order corpsman manual

how to reset maintenance light on toyota scion

how to reset bcm 350z

how to remove stuff from credit report

how to grow your small business

Medical Surgical Nursing Dewitt Study Guide Answers:

Veterinary Microbiology and Microbial Disease, 2nd Edition Veterinary Microbiology and Microbial Disease, 2nd Edition \cdot + E-Book Starting at just \$102.00 \cdot - Print Starting at just \$126.95. Veterinary Microbiology and Microbial Disease Veterinary Microbiology and Microbial Disease remains indispensable for all those studying and teaching this essential component of

the veterinary curriculum. Veterinary Microbiology and Microbial Disease This is a core textbook covering every aspect of veterinary microbiology for students in both paraclinical and clinical years. The clinical applications to farm ... Veterinary Microbiology and Microbial Disease - PMC by JF Prescott \cdot 2003 \cdot Cited by 7 — This book is an introductory text in veterinary microbiology and microbial disease for veterinary undergraduates, written by faculty members at University ... Veterinary Microbiology and Microbial Disease Microbiology is one of the core subjects for veterinary students, and since its first publication in 2002, Veterinary Microbiology and Microbial Disease has ... Veterinary Microbiology and Microbial Disease (Hardcover) Sep 26, 2023 — Veterinary microbiology refers to a field of study that is primarily focused on the microbes that cause diseases in animals. It studies the ... Veterinary Microbiology and Microbial Disease, 2nd Edition Veterinary Microbiology and Microbial Disease, 2nd Edition by P. J. Quinn, B. K. Markey, F. C. Leonard, P. Hartigan, S. Veterinary Microbiology and Microbial Disease - Quinn, P. J. Microbiology is one of the core subjects for veterinary students, and since its first publication in 2002, Veterinary Microbiology and Microbial Disease has ... Veterinary Microbiology and Microbial Disease - 2nd ... "Veterinary Microbiology is one of the core subjects for veterinary students. Fully revised and expanded, this new edition covers every aspect of veterinary ... Veterinary Microbiology - Elsevier Health Veterinary Microbiology is concerned with bacterial and viral diseases of domesticated vertebrate animals (livestock, companion animals, fur-bearing animals ... Pseudomonas: Model Organism, Pathogen, Cell Factory Mar 26, 2008 — Concise and up-to-date, this handy guide fills a gap in the literature by providing the essential knowledge for everyone with an interest in ... Pseudomonas: Model Organism, Pathogen, Cell Factory. ... The two first chapters deal with comparative genomics of Pseudomonas genomes and P. aeruginosa infections in humans (in particular in cystic fibrosis patients), ... Pseudomonas: Model Organism, Pathogen, Cell Factory Concise and up-to-date, this handy guide fills a gap in the literature by providing the essential knowledge for everyone with an interest in the topic. Pseudomonas: Model Organism, Pathogen, Cell Factory This text is a comprehensive overview of the most important model organism in applied microbiology that covers basic biology, pathology and biotechnological ... Microbe Profile: Pseudomonas aeruginosa: opportunistic ... by SP Diggle · 2020 · Cited by 311 — Pseudomonas aeruginosa is a Gram-negative opportunistic pathogen and a model bacterium for studying virulence and bacterial social traits. Pseudomonas: Model Organism, Pathogen, Cell Factory ... Pseudomonas aeruginosa is a common bacterium found in a wide range of environments; it infects nematodes, insects, plants, and ameba in the laboratory and ... Bernd H.A. Rehm: Books Pseudomonas: Model Organism, Pathogen, Cell Factory. Pinch to zoom-in further. SEE MORE DETAILS. Pseudomonas: Model Organism, Pathogen, Cell Factory. Pseudomonas model organism pathogen cell factory ... May 16, 2023 — Thank you for reading pseudomonas model organism pathogen cell factory. Maybe you have knowledge that, people have search numerous times for. Pseudomonas: Model Organism, Pathogen, Cell Factory Pseudomonas: Model Organism, Pathogen, Cell Factory ... The result is a comprehensive overview of the most important model organism in applied microbiology that ... Pseudomonas: Model Organism, Pathogen, Cell Factory Jun 25, 2008 — Get Textbooks on Google Play. Rent and save from the world's largest eBookstore. Read, highlight, and take notes, across web, tablet, and phone. chapter 8 holt physical science Flashcards Study with Quizlet and memorize flashcards containing terms like suspension, Colloid, Emulsion and more. Chapter 8.S2 Solutions | Holt Science Spectrum: Physical ... Access Holt Science Spectrum: Physical Science with Earth and Space Science 0th Edition Chapter 8.S2 solutions now. Our solutions are written by Chapter. 8: Solutions - Holt Physical Science With Earth & ... The Solutions chapter of this Holt Science Spectrum - Physical Science with ... Test your knowledge of this chapter with a 30 question practice chapter exam. Holt Physical Science Chapter: 8 Flashcards Study with Quizlet and memorize flashcards containing terms like acid, indicator, electrolyte and more. Chapter 8: Solutions - Holt Physical Science With Earth & ... Chapter 8: Solutions - Holt Physical Science With Earth & Space Science Chapter Exam. Free Practice Test Instructions: Choose your answer to the question and ... Chapter 8.S1 Solutions | Holt Science Spectrum: Physical ... Access Holt Science Spectrum: Physical Science with Earth and Space Science 0th Edition Chapter 8.S1 solutions now. Our solutions are written by Chegg ... Holt Science Spectrum - Solutions Chapter 8 Holt Science Spectrum: Physical Science with Earth and Space Science: Chapter Resource File, Chapter 8: Solutions Chapter 8: Solutions - Softcover; Softcover. Motion and Forces - Chapter 8 I can recognize that the free-fall acceleration near Earth's surface is independent of the mass of the falling object. I can explain the difference mass and ... Holt MC Quizzes by section and KEYS.pdf Holt Science Spectrum. 30. Motion. Page 4. TEACHER RESOURCE PAGE. REAL WORLD ... 8. c. 1. c. 2. a. acceleration b. distance c. speed d. distance e. acceleration f ...