

# Chapter 10



## GRAVITATION

In Chapters 8 and 9, we have learnt about the motion of objects and force as the cause of motion. We have learnt that a force is needed to change the speed or the direction of motion of an object. We always observe that an object dropped from a height falls towards the earth. We know that all the planets go around the Sun. The moon goes around the earth. In all these cases, there must be some force acting on the objects, the planets and on the moon. Isaac Newton could grasp that the same force is responsible for all these. This force is called the gravitational force.

In this chapter we shall learn about gravitation and the universal law of gravitation. We shall discuss the motion of objects under the influence of gravitational force on the earth. We shall study how the weight of a body varies from place to place. We shall also discuss the conditions for objects to float in liquids.

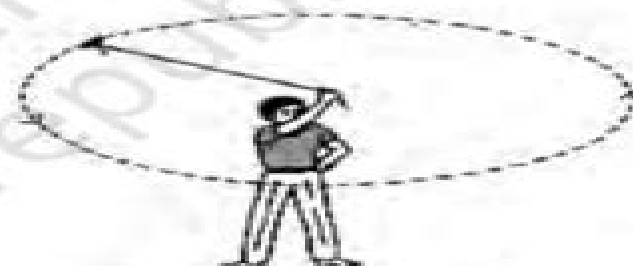
### 10.1 Gravitation

We know that the moon goes around the earth. An object when thrown upwards, reaches a certain height and then falls downwards. It is said that when Newton was sitting under a tree, an apple fell on him. The fall of the apple made Newton start thinking. He thought that: if the earth can attract an apple, can it not attract the moon? Is the force the same in both cases? He conjectured that the same type of force is responsible in both the cases. He argued that at each point of its orbit, the moon falls towards the earth, instead of going off in a straight line. So, it must be attracted by the earth. But we do not really see the moon falling towards the earth.

Let us try to understand the motion of the moon by recalling activity 8.11.

#### Activity 10.1

- Take a piece of thread.
- Tie a small stone at one end. Hold the other end of the thread and whirl it round, as shown in Fig. 10.1.
- Note the motion of the stone.
- Release the thread.
- Again, note the direction of motion of the stone.



**Fig. 10.1:** A stone describing a circular path with a velocity of constant magnitude.

Before the thread is released, the stone moves in a circular path with a certain speed and changes direction at every point. The change in direction involves change in velocity or acceleration. The force that causes this acceleration and keeps the body moving along the circular path is acting towards the centre. This force is called the centripetal (meaning 'centre-seeking') force. In the absence of this

# Class Gravitation Chapter

**Moshe Carmeli**



## **Class Gravitation Chapter:**

*NCERT Solutions for Class 9 Science Chapter 10 Gravitation* Bright Tutee, 2020-06-05 The CBSE NCERT solutions for Class 9th Science Chapter 10 Gravitation prepared by Bright Tutee team helps you prepare the chapter from the examination point of view. The topics covered in the chapter include free fall, mass and weight, and thrust and pressure. All you have to do is download the solutions from our website. Download Chapter 10 Gravitation chapter wise NCERT Solutions for free. This valuable resource is a must have for CBSE class 9th students and is available for free. Some of the added benefits of this resource are: Better understanding of the chapter, Access to all the answers of the chapter, Refer the answers for a better exam preparation, You are able to finish your homework faster. The CBSE NCERT solutions are constantly reviewed by our panel of experts so that you always get the most updated solutions. Start your learning journey by downloading the chapter wise solution. At Bright Tutee we make learning engrossing by providing you video lessons. In these lessons our teachers use day to day examples to teach you the concepts. They make learning easy and fun. Apart from video lessons we also give you MCQs, assignments, and an exam preparation kit. All these resources help you get at least 30-40 percent more marks in your exams.

*Gravitation* T. Padmanabhan, 2010-01-28 Covering all aspects of gravitation in a contemporary style, this advanced textbook is ideal for graduate students and researchers in all areas of theoretical physics. The Foundation section develops the formalism in six chapters and uses it in the next four chapters to discuss four key applications: spherical spacetimes, black holes, gravitational waves, and cosmology. The six chapters in the Frontier section describe cosmological perturbation theory, quantum fields in curved spacetime, and the Hamiltonian structure of general relativity, among several other advanced topics, some of which are covered in depth for the first time in a textbook. The modular structure of the book allows different sections to be combined to suit a variety of courses. Over 200 exercises are included to test and develop the reader's understanding. There are also over 30 projects which help readers make the transition from the book to their own original research.

**Educart CBSE Question Bank Class 9 Science 2025-26 on new Syllabus 2026 (Most Recommended NCERT based Reference Book)** Educart, 2025-04-16 Book Structure: Related Theory, Detailed Solutions. How Good is the Educart Class 9 Question Bank? Updated with the most recent exam format and question trends. Step by step solutions enhance understanding and problem solving skills. Covers NCERT Exemplar and previous years board exam questions. Helps students familiarise themselves with exam style questions and manage time efficiently. Well researched and accurate answers to avoid confusion. Preferred by high achieving students for its clarity and effectiveness. Covers all topics with clear explanations and step by step solutions. Includes previous years question papers along with marking schemes. Additional practice questions to enhance understanding and exam readiness. Detailed solutions to NCERT and Exemplar problems for thorough preparation. Why choose this book? The Educart Class 9 Question Bank is an excellent resource for students aiming to excel in their board exams. This book is designed to provide a structured approach to revision, offering fully solved past

exam papers and additional practice questions      *Group Theory and General Relativity* Moshe Carmeli, 2000 This is the only book on the subject of group theory and Einstein's theory of gravitation It contains an extensive discussion on general relativity from the viewpoint of group theory and gauge fields It also puts together in one volume many scattered original works on the use of group theory in general relativity theory There are twelve chapters in the book The first six are devoted to rotation and Lorentz groups and their representations They include the spinor representation as well as the infinite dimensional representations The other six chapters deal with the application of groups particularly the Lorentz and the  $SL(2, \mathbb{C})$  groups to the theory of general relativity Each chapter is concluded with a set of problems The topics covered range from the fundamentals of general relativity theory its formulation as an  $SL(2, \mathbb{C})$  gauge theory to exact solutions of the Einstein gravitational field equations The important Bondi Metzner Sachs group and its representations conclude the book The entire book is self contained in both group theory and general relativity theory and no prior knowledge of either is assumed The subject of this book constitutes a relevant link between field theoreticians and general relativity theoreticians who usually work rather independently of each other The treatise is highly topical and of real interest to theoretical physicists general relativists and applied mathematicians It is invaluable to graduate students and research workers in quantum field theory general relativity and elementary particle theory

Class 9 BRAHMASTRA : Pride Of The Classroom ( Science's Book ) Anil Bulchandani, Why Students Love This Book This book is like a personal mentor in your hands Complete NCERT CBSE RBSE coverage Easy to understand Easy to remember content Simple clear explanations for every topic Why Parents Trust This Book Parents choose BRAHMASTRA because it is Well structured and easy for self study Guides children to stay ahead confidently and responsibly What This Book Helps In Scoring better marks Strong basics Class 10 head start Real understanding no rote learning no ratta fication Strong Start in Class 9 Strong Victory in Class 10 Science isn't hard You just need the right book the right guidance Choose clarity Choose confidence Choose Class 9 BRAHMASTRA Pride of the Classroom

**Group Theory & General Relativity** Moshe Carmeli, 2000-11-15 This is the only book on the subject of group theory and Einstein's theory of gravitation It contains an extensive discussion on general relativity from the viewpoint of group theory and gauge fields It also puts together in one volume many scattered original works on the use of group theory in general relativity theory There are twelve chapters in the book The first six are devoted to rotation and Lorentz groups and their representations They include the spinor representation as well as the infinite dimensional representations The other six chapters deal with the application of groups particularly the Lorentz and the  $SL(2, \mathbb{C})$  groups to the theory of general relativity Each chapter is concluded with a set of problems The topics covered range from the fundamentals of general relativity theory its formulation as an  $SL(2, \mathbb{C})$  gauge theory to exact solutions of the Einstein gravitational field equations The important Bondi Metzner Sachs group and its representations conclude the book The entire book is self contained in both group theory and general relativity theory and no prior knowledge of either is assumed The subject of this book constitutes a relevant link

between field theoreticians and general relativity theoreticians who usually work rather independently of each other The treatise is highly topical and of real interest to theoretical physicists general relativists and applied mathematicians It is invaluable to graduate students and research workers in quantum field theory general relativity and elementary particle theory Handbook of Gravitational Wave Astronomy Cosimo Bambi,Stavros Katsanevas,Konstantinos D.

Kokkotas,2022-07-02 This handbook provides an updated comprehensive description of gravitational wave astronomy In the first part it reviews gravitational wave experiments from ground and space based laser interferometers to pulsar timing arrays and indirect detection from the cosmic microwave background In the second part it discusses a number of astrophysical and cosmological gravitational wave sources including black holes neutron stars possible more exotic objects and sources in the early Universe The third part of the book reviews the methods to calculate gravitational waveforms The fourth and last part of the book covers techniques employed in gravitational wave astronomy data analysis This book represents both a valuable resource for graduate students and an important reference for researchers in gravitational wave astronomy

**An Elementary Treatise on Rational Mechanics** John Kerr,1866 **Organon of Science** John Harrison Stinson,1879 Lessons in elementary mechanics. 3 stages W H. Grieve,1888 Bulletin (new Series) of the American Mathematical Society ,1921 **Oswaal CBSE Sample Question Papers English, Math, Science & Social Science Class 9 (Set of 4 Books) (For 2024 Exams ) | 2023-24** Oswaal Editorial Board,2023-11-10 Description of the product 100% Exam Ready With 2023 CUET UG Exam Papers 2 Slots Fully Solved with Explanations Fill Learning Gaps With Revision Notes Chapter Analysis Crisp Recap with Smart Mind Maps Concept Videos Smart Shortcuts To Solve lengthy problems Final Boost With Tips Tricks to ACE CUET UG in 1st Attempt Bulletin of the American Mathematical Society American Mathematical Society,1921 The Gravitation Field of Forssa; a Gravitational Analysis of the Functional System Kauko Mikkonen,1972 Lessons in Elementary Mechanics W. H. Grieve,1892 **Knowledge & Illustrated Scientific News** ,1906 **Classified List of Publications of the Carnegie Institution of Washington** Carnegie Institution of Washington,1921 A Text-book of Physics Joseph Albertus Culler,1906 **Knowledge** ,1906 *Knowledge & Illustrated Scientific News* Baden Fletcher Smyth Baden-Powell,Edwin Sharpe Grew,Arthur Cowper Ranyard,Wilfred Mark Webb,1906

## The Enigmatic Realm of **Class Gravitation Chapter**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Class Gravitation Chapter** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

<https://yousky7.com/public/detail/index.jsp/Citroen%20Saxo%20Vtr%20Owners%20Manual.pdf>

### Table of Contents **Class Gravitation Chapter**

1. Understanding the eBook **Class Gravitation Chapter**
  - The Rise of Digital Reading **Class Gravitation Chapter**
  - Advantages of eBooks Over Traditional Books
2. Identifying **Class Gravitation Chapter**
  - 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 **Class Gravitation Chapter**
  - User-Friendly Interface
4. Exploring eBook Recommendations from **Class Gravitation Chapter**
  - Personalized Recommendations
  - **Class Gravitation Chapter** User Reviews and Ratings
  - **Class Gravitation Chapter** and Bestseller Lists

5. Accessing Class Gravitation Chapter Free and Paid eBooks
  - Class Gravitation Chapter Public Domain eBooks
  - Class Gravitation Chapter eBook Subscription Services
  - Class Gravitation Chapter Budget-Friendly Options
6. Navigating Class Gravitation Chapter eBook Formats
  - ePub, PDF, MOBI, and More
  - Class Gravitation Chapter Compatibility with Devices
  - Class Gravitation Chapter Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Class Gravitation Chapter
  - Highlighting and Note-Taking Class Gravitation Chapter
  - Interactive Elements Class Gravitation Chapter
8. Staying Engaged with Class Gravitation Chapter
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Class Gravitation Chapter
9. Balancing eBooks and Physical Books Class Gravitation Chapter
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Class Gravitation Chapter
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Class Gravitation Chapter
  - Setting Reading Goals Class Gravitation Chapter
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Class Gravitation Chapter
  - Fact-Checking eBook Content of Class Gravitation Chapter
  - 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

### **Class Gravitation Chapter Introduction**

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In today's fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Class Gravitation Chapter PDF books and manuals is the internet's largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal



growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Class Gravitation Chapter PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Class Gravitation Chapter free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

### **FAQs About Class Gravitation Chapter Books**

**What is a Class Gravitation Chapter PDF?** A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a Class Gravitation Chapter PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. **How do I edit a Class Gravitation Chapter PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Class Gravitation Chapter PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Class Gravitation Chapter PDF?** Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers

PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

### Find Class Gravitation Chapter :

**citroen saxo vtr owners manual**

*[citroen cx 1976 repair service manual](#)*

**citroen bx 19 diesel dashboard**

[citroen c5 2001 repair manual](#)

[citroen nemo radio wiring](#)

**citing apa manual 6th edition**

[citroen tdi manual 2006](#)

[cism manual 24](#)

**citroen c3 2007**

[citoyenneteacute et participation politique en afrique du sud](#)

**citron c3 2004 manual**

**city and guilds examination papers for phlebotomy**

[citroen c5 engine parts diagram 2003](#)

[cissp exam self practice review questions 2015 edition with 160 questions](#)

[citroen 1982 1994 bx workshop repair service manual 10102 quality](#)

### Class Gravitation Chapter :

Managerial Accounting for Managers Authors Eric Noreen, Peter Brewer, and Ray Garrison have crafted a streamlined Managerial Accounting book that is perfect for non-accounting majors who ... Managerial Accounting for Managers: Noreen,

Eric, Brewer ... Authors Eric Noreen, Peter Brewer, and Ray Garrison have crafted a streamlined Managerial Accounting book that is perfect for non-accounting majors who ... ISE Managerial Accounting for Managers by Noreen, Eric The manager approach in Noreen allows students to develop the conceptual framework needed to succeed, with a focus on decision making and analytical skills. Managerial Accounting for Managers - Noreen, Eric Authors Eric Noreen, Peter Brewer, and Ray Garrison have crafted a streamlined Managerial Accounting book that is perfect for non-accounting majors who ... Managerial Accounting for Managers - Eric Noreen, Peter ... Managerial Accounting for Managers, 2nd Edition by Noreen/Brewer/Garrison is based on the market-leading text, Managerial Accounting, by Garrison, Noreen ... Managerial Accounting for Managers | Rent Authors Eric Noreen, Peter Brewer, and Ray Garrison have crafted a streamlined Managerial Accounting book that is perfect for non-accounting majors who intend ... ISBN 9781264100590 - Managerial Accounting for ... Managerial Accounting for Managers. Author(s) Peter BrewerRay GarrisonEric Noreen. ISBN 9781264100590. facebook twitter pinterest linkedin email. Managerial ... Managerial Accounting for Managers by: Eric Noreen Authors Eric Noreen Peter Brewer and Ray Garrison have crafted a streamlined Managerial Accounting book that is perfect for non-accounting majors who intend ... Managerial Accounting for Managers. Noreen. 6th Edition ... Authors Eric Noreen, Peter Brewer, and Ray Garrison have crafted a streamlined Managerial Accounting book that is perfect for non-accounting majors who ... Managerial Accounting for Managers by Eric W. Noreen Sep 17, 2007 — Managerial Accounting for Managers , 2nd Edition by Noreen/Brewer/Garrison is based on the market-leading text, Managerial Accounting, ... Clymer Repair Manual for Harley FLH FLT Twin Cam 88 ... Clymer Repair Manual for Harley FLH FLT Twin Cam 88 99-05 ; Quantity:1 ; Features & details · Clymer Harley-Davidson FLH/FLT Twin Cam 88 & 103 (1999-2005) (53152) ... Harley Twin Cam 88, Road King Repair Manual 1999-2010 This Motor Bookstore Bestseller repair manual by Haynes covers all models of Harley-Davidson Twin Cam 88, 96, and 103 models, including:. 1999-05 Dyna Service Manual This detailed and comprehensive manual covers the Harley-Davidson Dyna Glide Twin Cam 88 model from 1999-on. Procedures and specifications. Harley-Davidson Twin Cam 88, 96 & 103 Models (99 - 10) ... Haynes repair manuals provide expert information and valuable details you won't find in online crowd-sourced information: Over 500 repair and maintenance ... Harley-Davidson Flh/Flt Twin Cam 88 & 103 1999-2005 ... Harley-Davidson Flh/Flt Twin Cam 88 & 103 1999-2005 (Clymer Manuals). €41,87 €49 ... Clymer Harley-Davidson FXD Evolution 1991-1998 repair manual is written ... Harley Davidson Twin Cam 88 96 103 Workshop Service ... Complete coverage for your Harley-Davidson Twin Cam 88, 96 and 103 Models 1999 to 2010 Routine Maintenance and servicing Tune-up procedures Engine, ... Harley Davidson FLH, FLT Twin Cam Service & Repair ... This service manual contains many original photographs, illustrations and wiring diagrams obtained from the complete teardown and rebuild of the Harley Davidson ... Clymer Harley-Davidson FLH/FLT Twin Cam 88 & 103 99- ... Clymer motorcycle repair manuals are written specifically for the do-it-yourself enthusiast. From basic maintenance to troubleshooting to complete overhaul, ...

Clymer M430-4 Service Shop Repair Manual Harley FLH ... Complete Maintenance and repair information. Detailed photos and illustrations guide you through every job. Easy to find and easy to use do-it-yourself content. Harvard Managementor Post Assessment Answers Coaching Jun 23, 2023 — harvard-managementor-post-assessment-answers-coaching ... Harvard Managementor Post Assessment Answers Coaching Book Review: Unveiling the Magic ... Please, provide correct answers to Strategic Thinking ... Mar 10, 2014 — 10... Please, provide correct answers to Strategic Thinking Questions. 10 questions (Multiple choice) Harvard ManagerMentor Post Assessment. post assessment answers Harvard Manage Mentor ... Oct 21, 2015 — post assessment answers Harvard Manage Mentor Decision Making. Business. Rated. Solved by verified expert. Answered step-by-step. Harvard Managementor Assessment Answers Form Harvard Managementor Answers. Explore the easiest way to report your miscellaneous compensations. Complete fillable Managementor Feedback Sample with ... Harvard ManageMentor Help students discover their talents, explore career options, and manage themselves as they navigate post-graduation life. ... Provide non-business majors an ... Harvard ManageMentor Build, broaden, refresh your business skills with HBR's 41 online modules on managing yourself, others, and your business. Includes, audio, video, and ... Exam 3 Harvard Manage Mentor Chapter 7 Flashcards Study with Quizlet and memorize flashcards containing terms like What are difficult interactions?, Why isn't conflict all bad?, Why do conflicts happen? and ... Harvard Managementor Project Management Post ... Fill Harvard Managementor Project Management Post Assessment Answers, Edit online. Sign, fax and printable from PC, iPad, tablet or mobile with pdfFiller ... Harvard ManageMentor? Found in my companies online training that we have 28 of the HMM series course available at no cost to us. each one 2 hours. for a total of 56 hours ... HARVARD MANAGEMENTOR® Each course summarizes critical ideas and advice on essential management topics such as leading teams, project management, strategic thinking, and much more.