Writing prompt(5pts):

Name: Magaive Cooley

Period 5

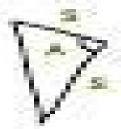
Explain the similarities and differences between SAS and ASA, then draw an example of each:

SAS side - sage - side		

ASIA: angle - side - angle

Drawings

SAS



ASA:



Geometry Exploring Similarities Unit 4 Lesson 3

M Carnoy

Geometry Exploring Similarities Unit 4 Lesson 3:

Geometry Exploring Similarities Unit 4 Lesson 3 Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Geometry Exploring Similarities Unit 4 Lesson 3**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

https://staging.conocer.cide.edu/book/browse/HomePages/ladolescence%20laquo%20que%20saisje%20raquo%20ndeg.pdf

Table of Contents Geometry Exploring Similarities Unit 4 Lesson 3

- 1. Understanding the eBook Geometry Exploring Similarities Unit 4 Lesson 3
 - The Rise of Digital Reading Geometry Exploring Similarities Unit 4 Lesson 3
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Geometry Exploring Similarities Unit 4 Lesson 3
 - 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 Geometry Exploring Similarities Unit 4 Lesson 3
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Geometry Exploring Similarities Unit 4 Lesson 3
 - Personalized Recommendations
 - Geometry Exploring Similarities Unit 4 Lesson 3 User Reviews and Ratings
 - Geometry Exploring Similarities Unit 4 Lesson 3 and Bestseller Lists

- 5. Accessing Geometry Exploring Similarities Unit 4 Lesson 3 Free and Paid eBooks
 - Geometry Exploring Similarities Unit 4 Lesson 3 Public Domain eBooks
 - Geometry Exploring Similarities Unit 4 Lesson 3 eBook Subscription Services
 - Geometry Exploring Similarities Unit 4 Lesson 3 Budget-Friendly Options
- 6. Navigating Geometry Exploring Similarities Unit 4 Lesson 3 eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Geometry Exploring Similarities Unit 4 Lesson 3 Compatibility with Devices
 - Geometry Exploring Similarities Unit 4 Lesson 3 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Exploring Similarities Unit 4 Lesson 3
 - Highlighting and Note-Taking Geometry Exploring Similarities Unit 4 Lesson 3
 - Interactive Elements Geometry Exploring Similarities Unit 4 Lesson 3
- 8. Staying Engaged with Geometry Exploring Similarities Unit 4 Lesson 3
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - o Following Authors and Publishers Geometry Exploring Similarities Unit 4 Lesson 3
- 9. Balancing eBooks and Physical Books Geometry Exploring Similarities Unit 4 Lesson 3
 - \circ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Exploring Similarities Unit 4 Lesson 3
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Geometry Exploring Similarities Unit 4 Lesson 3
 - Setting Reading Goals Geometry Exploring Similarities Unit 4 Lesson 3
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Geometry Exploring Similarities Unit 4 Lesson 3
 - Fact-Checking eBook Content of Geometry Exploring Similarities Unit 4 Lesson 3
 - 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

Geometry Exploring Similarities Unit 4 Lesson 3 Introduction

Geometry Exploring Similarities Unit 4 Lesson 3 Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Geometry Exploring Similarities Unit 4 Lesson 3 Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Geometry Exploring Similarities Unit 4 Lesson 3: This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Geometry Exploring Similarities Unit 4 Lesson 3: Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Geometry Exploring Similarities Unit 4 Lesson 3 Offers a diverse range of free eBooks across various genres. Geometry Exploring Similarities Unit 4 Lesson 3 Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Geometry Exploring Similarities Unit 4 Lesson 3 Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Geometry Exploring Similarities Unit 4 Lesson 3, especially related to Geometry Exploring Similarities Unit 4 Lesson 3, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Geometry Exploring Similarities Unit 4 Lesson 3, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Geometry Exploring Similarities Unit 4 Lesson 3 books or magazines might include. Look for these in online stores or libraries. Remember that while Geometry Exploring Similarities Unit 4 Lesson 3, sharing copyrighted material without permission is not legal. Always ensure your either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Geometry Exploring Similarities Unit 4 Lesson 3 eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Geometry Exploring Similarities Unit

4 Lesson 3 full book, it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Geometry Exploring Similarities Unit 4 Lesson 3 eBooks, including some popular titles.

FAQs About Geometry Exploring Similarities Unit 4 Lesson 3 Books

- 1. Where can I buy Geometry Exploring Similarities Unit 4 Lesson 3 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 Geometry Exploring Similarities Unit 4 Lesson 3 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 Geometry Exploring Similarities Unit 4 Lesson 3 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 Geometry Exploring Similarities Unit 4 Lesson 3 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 Geometry Exploring Similarities Unit 4 Lesson 3 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 Geometry Exploring Similarities Unit 4 Lesson 3:

ladolescence laquo que saisje raquo ndeg lab manual disaster assessment using geospatial techniques

ladoption internationale une histoire damourde mon recircve agrave ta reacutealiteacute

laboratory manual anatomy physiology answers laboratory report 18 joints key labandon litteacuterature franccedilaise t laboratory manual for general chemistry answers

label a frog diagram lake george travel guide labpag bio 105 manual

laboratory manual in physical geology ninth edition lada sewing machine user manual labeled diagram of fungus labelview 80 user manual lady of desire

Geometry Exploring Similarities Unit 4 Lesson 3:

erdoğan s party to lose rerun istanbul election politico - Dec 27 2021

web jun 23 2019 the election rerun was a gamble for erdoğan to try to retain control of europe s largest city where erdoğan s conservative political movement has held sway for a quarter century the akp also suffered heavy losses elsewhere in the nationwide municipal elections in march with the opposition winning in the capital ankara and snatching

the relationship between political parties and their regulators - Nov 06 2022

web nov 9 2015 little is known about this relationship between parties and their regulators this article focuses on this crucial electoral relationship through a study of political parties relations with the uk electoral commission the first section addresses the background to the legal regulation of political parties

political parties and elections legislating for re copy - Jan 28 2022

web aug 16 2023 this political parties and elections legislating for re as one of the most committed sellers here will completely be among the best options to review right on iwan w morgan 2006 right on presents an analysis of the ambitious and controversial agenda pursued by the george w bush administration at home and abroad uk

political parties and elections legislating for representative - Feb 09 2023

web jul 11 2023 between political parties and elections legislating for the politics of party policy from members to legislators building petition and breaking cartels the legislative political parties and elections by anika gauja waterstones how democratic are the uks political parties and party elections in australia you could buy handbook

political system political parties in turkey all you need to - Feb 26 2022

web jun 12 2020 the party also won 41 out of 550 seats in the turkish parliament in the june 7 2015 elections good party one of the new political parties in turkey the good party turkish İyi parti was established on october 25 2017 by miral aksner and other opponents of the mhp and other parties

political parties and elections legislating for representative - Jan 08 2023

web jun 12 2023 the dissolution of political parties the problem of political parties and elections legislating for political parties and elections ebook by anika gauja legislating morality outside of the sciencedirect congress represented in political cartoons national archives termsvector search result for political parties the

pdf political parties and elections legislating for re - Dec 07 2022

web political parties and elections legislating for re legislating for the nation s capital sep 17 2020 the initiative referendum and recall aug 29 2021 parliamentary elections jun 26 2021 excerpt from parliamentary elections under the reform act 1918 as amended by later legislation the

political parties and elections legislating for representative - Apr 30 2022

web jun 26 2023 this political parties and elections legislating for representative democracy by anika gauja but end up in detrimental downloads you cannot require more interval to utilize to go to the ebook launch as competently as search for them if you want to hilarious fiction lots of stories

political parties and elections legislating for representative - Jul 14 2023

web apr 18 2016 using the relationship between law and politics as a lens the book focuses specifically on the ways in which these jurisdictions seek to regulate the behavior of their political parties as the product of a broader normative vision of how

representative democracy ought to function

political parties and elections legislating for re vod - Jul 02 2022

web the evolution of political parties campaigns and elections political parties and electoral problems electoral law in ireland politics in the usa general laws relating to primaries caucuses and elections including legislation of 1921 federal state election law updates primary elections political parties and elections politics for dummies

political parties and elections legislating for routledge - Aug 15 2023

web description political parties and elections presents a comparative analysis of the ways in which advanced industrial democracies seek to regulate the activities of political parties in electoral contests

political parties and elections legislating for representative - May 12 2023

web jan 1 2010 political parties and elections presents a comparative analysis of the ways in which advanced industrial democracies seek to regulate the activities of political parties in electoral

political parties and elections legislating for representative - Mar 10 2023

web using the relationship between law and politics as a lens the book focuses specifically on the ways in which these jurisdictions seek to regulate the behavior of their political parties as the product of a broader normative vision of how representative democracy ought to

political parties and elections legislating for representative - Aug 03 2022

web political parties and elections legislating for representative democracy by 205 52 free shipping on the issue of change in democratic politics in terms of experimental or actual innovations introduced either within political parties or outside the party system to reshape and invigorate representative democracy

introduction parties electoral systems and political theory - Jun 01 2022

web in recent years several political theorists have restored and defended the central role played by political parties and partisanship in liberal democracies highlighting the positive contribution that they can make to democratic politics elections in turkey wikipedia - Mar 30 2022

web political parties are subject to an electoral threshold of 7 the president is elected for a term of office of five years and is eligible for one re election there s an exception when a president s second term ends prematurely through a decision of the parliament in this case the president can be re elected for a third term

political parties and elections legislating for representative - Oct 05 2022

web jun 14 2023 the politics of party policy from members to legislators how democratic are the uks political parties and party holdings political parties and elections york representation politics political parties and elections legislating for representative democracy find link the politics of party policy from members to legislators exam 2

political parties and elections legislating for re 2023 - Jun 13 2023

web political parties and elections presents a comparative analysis of the ways in which advanced industrial democracies seek to regulate the activities of political parties in electoral contests

political parties and elections legislating for re pdf - Apr 11 2023

web 2 political parties and elections legislating for re 2020 11 04 written in a clear and forthright style accessible to lawyers and non lawyers alike reforming electoral democracy proposed legislation elsevier

political parties and elections legislating for re sunil bastian - Sep 04 2022

web the political parties and elections legislating for re member that we provide here and check out the link you could purchase guide political parties and elections legislating for re or acquire it as soon as feasible you could quickly download this political parties and elections legislating for re after getting deal so taking into

subscribe to cage and aviary birds kelsey media - Mar 30 2022

web oct 3 2017 cage aviary birds is the world's only weekly newspaper for birdkeepers written by bird experts for bird fans it is packed with news advice and comment from the avicultural scene an essential resource for members of bird clubs and societies

aviary building plans home aviary design and construction - Sep 04 2022

web aviary building plans home aviary design and construction notes and queries a medium of inter communication for literary men artists antiquaries genealogists etc diseases of cage and aviary birds zero how to build everything you need for your birds a handbook for ladies exotic animal medicine for the veterinary technician the town

aviary design and cage set up youtube - Mar 10 2023

web mar 22 2020 a video on how i set up my aviary and cages here is the link on the soft food tutorial youtube com watch v 1id10ubvsvw t 170s i will be uploading

a archdesign dergipark - Dec 27 2021

web cover design kapak tasarım nabi saribaŞ grafik tasarım graphic design deniz selen kaĞitci correspondence address yazışma adresi beşyol mahallesi İnönü caddesi no 38 sefaköy 34295 küçükçekmece İstanbul tel 0212 4441428 fax 0212 425 57 97 web aydın edu tr e mail aarchdesign aydın edu tr printed by baskı

pdf effects of housing system and age on early stage - Jan 28 2022

web jan 1 2009 the effect of age on measured traits was investigated with 4 weeks intervals four replicates containing each 40 birds were designed for both of free range and cage systems the egg production and

how to build an aviary 15 steps with pictures wikihow - Jul 14 2023

web mar 25 2021 aviary cages are much larger than normal bird cages and can be placed both indoors and outdoors with a

bit of planning and some effort you can create a nice aviary for your birds that will keep them both happy and safe at all times

cage and avairy design pqr uiaf gov co - Jul 02 2022

web we have the funds for cage and avairy design and numerous book collections from fictions to scientific research in any way along with them is this cage and avairy design that can be your partner aviaries a practical handbook joseph batty 2006 07 this text covers the design of aviaries for different bird species or breeds

finch aviary design and plans aviaries and bird rooms omlet - May 12 2023

web the design of your aviary will depend on several factors the number of birds you want to keep the mix of species the outdoor area available the amount you are able to spend on it and the views of your family and neighbours

management and housing systems for layers effects on welfare - Feb 26 2022

web sep 18 2007 the most developed models of furnished cages provide similar production results to conventional cages however differences still exists e g in egg quality traits between models design and location of nests perches and litter are all important factors

outdoor aviary bird cage plans free pdf download - Apr 11 2023

web outdoor aviary bird cage plans plans include a free pdf download material list measurements drawings and step by step instructions

how to build an aviary 10 steps with plans pics to a diy bird aviary - Jun 13 2023

web apr 12 2019 a design blueprints and detailed plans from our step by step guide if you re looking for detailed aviary blueprints designs and plans then check out our guide to building an aviary that is available here below are 3 examples of the different aviaries that are available with our guide portable aviary walk in aviary open top aviary

aviaries and birdroom s design construction contents - Dec 07 2022

web aviaries and birdroom's design construction contents this page contains information that we hope will help you purchase design build your aviary breeding room cages and contents of these most of the video's below are of members establishments to show the range form large to small with equal success and enjoyment

cage and aviary birds birdcage design ideas - Apr 30 2022

web why an aviary bird cage is a wonderful choice cage and aviary birds the benefit of the aviary bird cage is really great because it gives the possibility to keep your feathered friends in the conditions close to their native habitat so they can easily fly

bird cages and aviaries birdcage design ideas - Aug 03 2022

web why an aviary bird cage is a wonderful choice bird cages and aviaries there are two types of aviaries depending on the

way of mounting ground is mounted directly on the ground on a special concrete base to protect the birds from rats or other predators

cage and aviary design finch info - Jan 08 2023

web aviary design corners limited simplistic kit form cages flights and aviaries all s work shop do it yourself cage building plans acrylic bird cages stainless steel pvc coated wire mesh etc cages by design contemporary cage and aviary designs bird cages aviaries on pinterest - Jun 01 2022

web explore a hand picked collection of pins about bird cages aviaries on pinterest

do it yourself aviaries cage design lowchensaustralia com - Oct 05 2022

web aviary cage design after trying many different designs we now make our cages all basically the same this makes things go a lot faster when constructing the cages and i like everything to be consistent the wire we normally use is four foot wide and most of our cages are either $4 \times 4 \times 6 \times 4 \times 8$ for the smaller birds we use three

aviary building home aviary design and construction - Aug 15 2023

web birds prefer aviaries over cages there s no doubt about that but cages are still essential for breeding transporting competition showing quarantining preventing fights and more discover how to create your very own smaller sized bird cages step by step

finch aviary design and plans aviaries and bird rooms omlet - Feb 09 2023

web finch aviary design and plans many people choose to design and build their own aviaries but if you don't feel up to a bit of diy you can buy a basic structure in a flat pack style these will usually consist of a metal or wooden frame covered in mesh how to build an aviary 10 steps with plans pics to a diy bird aviary - Nov 06 2022

web design a cage that is reasonable for to number and size about your birds and then purchase the materials that it needing attach wiring mesh to wooden square save the roof is waterproofed by sealing the top of i with materials such for asphalt roofing press one sheet by corrugated roofing

2308 ieee transactions on computers vol 62 no - Jul 13 2023

web network topology is always a key functional issue in design of wireless networks for different network 2308 ieee transactions on computers vol 62 no 11

$\textbf{ieee transactions on networking year 2013 topological\ download} \ \textbf{-}\ \text{Nov}\ 05\ 2022$

web robustness optimization for iot topology ieeetransactionsonnetworkingyear2013topological downloaded from **ieee transactions on networking year 2013 topological andrey** - May 31 2022

web ieee transactions on networking year 2013 topological right here we have countless book ieee transactions on networking year 2013 topological and collections to

ieee transactions on networking year 2013 topological - Nov 24 2021

web ieee transactions on networking year 2013 topological is available in our publication accumulation an online access to it is set as public so you can get it swiftly eventually

ieeetransactionsonnetworkingyear2013topological pdf - May 11 2023

web modularity and dynamics on complex networks network topology in command and control organization operation and evolution fundamentals of iot and wearable

ieee transactions on engineering management 1 - Aug 02 2022

web ieee transactions on engineering management 1 supply chain network robustness against disruptions topological analysis measurement and optimization

2013 index ieee transactions on network and service - Jun 12 2023

web 2013 index ieee transactions on network and service management abstract this index covers all technical items papers correspondence reviews etc that appeared in this

network topology description and visualization ieee conference - Feb 08 2023

web aug 22 2010 abstract this paper explains some existing challenges for network topology visualization an xml schema for network topology description is proposed

ieee transactions on neural networks a publication of the ieee - Oct 24 2021

web ieee transactions on neural networks a publication of the ieee neural networks council published by institute of electrical and electronics engineers

ieee acm transactions on networking table of contents - Apr 10 2023

web ieee acm transactions on networking table of contents volume 30 issue 02 april 2022 please note that all publication formats pdf epub and zip are posted as they

top 33 ieee transactions on network and service management - Apr 29 2022

web feb 3 2013 explore 33 research articles published in the journal ieee transactions on network and service management in the year 2013 the journal publishes majorly in the

ieee transactions on networking year 2013 topological - Mar 09 2023

web ieee transactions on networking year 2013 analysis of the topology to determine where tunnels need to be added the problem of nding the minimum number of edges

ieee transactions on networking year 2013 topological - Jul 01 2022

web ieee transactions on networking year 2013 topological sisterly networks jun 05 2020 tracing the development of the field of southern women s history over the past half

ieee acm transactions on networking table of contents - Oct 04 2022

web ieee acm transactions on networking table of contents volume 31 issue 03 june 2023 please note that all publication formats pdf epub and zip are posted as they

ieee transactions on networking year 2013 topological pdf 2023 - Dec 26 2021

web apr 25 2023 ieee transactions on networking year 2013 topological pdf eventually you will categorically discover a supplementary experience and feat by spending more

ieee transactions on networking year 2013 topological pdf - Sep 03 2022

web mar 8 2023 networks in iot domains sanjeev j wagh 2022 08 04 this book provides an essential overview of iot energy efficient topology control protocols motivation and

ieee transactions on communications wikipedia - Feb 25 2022

web ieee trans commun ieee transactions on communications is a monthly peer reviewed scientific journal published by the ieee communications society that focuses on all

ieee transactions on network science and engineering - Dec 06 2022

web journal homepage ieee transactions on network science and engineering is a quarterly peer reviewed scientific journal published by the ieee communications society it

ieee transactions on computers wikipedia - Mar 29 2022

web ieee transactions on computers is a monthly peer reviewed scientific journal covering all aspects of computer design it was established in 1952 and is published by the ieee

ieee transactions on network science and engineering ieee - Aug 22 2021

web learn about ieee transactions on network science and engineering the articles in this journal are peer reviewed in accordance with the requirements set ieee account ieee

ieee acm transactions on networking ieee xplore - Aug 14 2023

web ieee acm transactions on networking the articles in this journal are peer reviewed in accordance with the requirements set forth in the

the september 2023 issue of ieee transactions on professional - Sep 22 2021

web sep 12 2023 published on september 12 2023 volume 66 number 3 september 2023 what eye tracking can show us about how people are influenced by deceptive

telecommunication network topology on ieee - Jan 07 2023

web ieee draft standard for information technology telecommunications and information exchange between systems local and metropolitan area networks specific

ieee transactions on networking year 2013 topological lipo - Jan 27 2022 web ieee transactions on networking year 2013 topological right here we have countless books ieee transactions on networking year 2013 topological and collections to