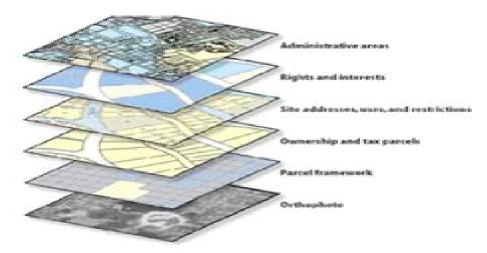
Mekelle University



Institute of Geo-information and Earth Observation Sciences (I-GEOS)



Practical manual for Principles of GIS (GEQS 1012)

Geos Syracuse University Lab Manual Teacher Edition

JG Myers

Geos Syracuse University Lab Manual Teacher Edition:

Reviewing Geos Syracuse University Lab Manual Teacher Edition: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "Geos Syracuse University Lab Manual Teacher Edition," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

https://staging.conocer.cide.edu/About/Resources/default.aspx/Kawasaki 300 Jet Ski Service Manual.pdf

Table of Contents Geos Syracuse University Lab Manual Teacher Edition

- 1. Understanding the eBook Geos Syracuse University Lab Manual Teacher Edition
 - The Rise of Digital Reading Geos Syracuse University Lab Manual Teacher Edition
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Geos Syracuse University Lab Manual Teacher Edition
 - 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 Geos Syracuse University Lab Manual Teacher Edition
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Geos Syracuse University Lab Manual Teacher Edition
 - Personalized Recommendations
 - Geos Syracuse University Lab Manual Teacher Edition User Reviews and Ratings
 - Geos Syracuse University Lab Manual Teacher Edition and Bestseller Lists

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

Geos Syracuse University Lab Manual Teacher Edition Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In todays 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 Geos Syracuse University Lab Manual Teacher Edition PDF books and manuals is the internets 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 Geos Syracuse University Lab Manual Teacher Edition 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 Geos Syracuse University Lab Manual Teacher Edition 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 Geos Syracuse University Lab Manual Teacher Edition Books

What is a Geos Syracuse University Lab Manual Teacher Edition 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 Geos Syracuse University Lab Manual Teacher Edition 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 Geos Syracuse University Lab Manual Teacher Edition 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 Geos Syracuse University Lab Manual Teacher Edition 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 Geos Syracuse University Lab Manual Teacher Edition 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 Geos Syracuse University Lab Manual Teacher Edition:

kawasaki 3010 4x4 mule parts manual
kawasaki 3010 4x4 mule parts manual
kaeser ask 32 manual
kawasaki 1984 js550 manual
kabianga university college fees structure 2014 2015
kafka pour une litteacuterature mineure
kasuga frequency inverter manual
kamien music an appreciation 7th brief edition
kaplan property manual
kauai personal travel guide
kansas adjetant generals report john pohock
katie the taboo diaries
karmann ghia 1954 1979 repair service manual
karnataka sslc question paper 23
kaeser sx3 manual

Geos Syracuse University Lab Manual Teacher Edition:

d680 series proportional control valves with integrated - May 18 2023

web electrohydraulic valve cut away caution disassembly maintenance or repair other than in accordance with

72 series servovalves royal hydraulics - Dec 13 2022

web moog servo valve j682 moog servo valve j682 moog d062 191c servo valve 62 series servovalves moog servo valves d633 and d634 heash tech moog valves

moog servo valve j682 pdf pdf bukuclone ortax - Jul 08 2022

web web moog servo valve j682 series flow control servo valves about moog servo valves and proportional valves for moog inc may 2nd 2018 moog valves contain either a

moog servo valve j682 mail thekingiscoming com - Dec 01 2021

moog servo valve j682 orientation sutd edu - Oct 11 2022

web moog servo valve j682 the packet radio handbook mar 02 2022 a manual for amateur radio enthusiasts discusses the history of packet radio hardware systems networking

the moog d672 digital servovalve - Jan 14 2023

web in response to consistency and reliability challenges faced by customers and a solution request initiated by ge moog engineers have developed a new power generation

servo valves and proportional valves moog inc - Oct 23 2023

web reliability and accuracy learn more defense servovalves the type 30 servo valves encompass a two stage flow control double nozzle mechanical feedback design within a

15901 500 229 62 series moog inc - Aug 21 2023

web two stage servovalves 62 series servovalves 62 series flow throttle control valves 3 and preferably are 4 way applications they performance two

moog servo valve j682 tpc redmatters com - Jun 07 2022

web moog servo valve j682 the complete builder's guide to hot rod chassis and suspensions oct 17 2022 in how to build hot rod chassis highly regarded hot

moog servo valve j682 jmsseniorliving com - Mar 04 2022

web 2 moog servo valve j682 2022 07 26 looks at the sting operation used by the dept of justice to catch russian hackers who were gaining control of computers and stealing

free moog servo valve j682 cyberlab sutd edu sg - Apr 05 2022

web moog servo valve j682 1 moog servo valve j682 the lure elements of differential geometry radar federal clerical exam when an echo returns moog servo valve

servo valves pilot operated moog - Feb 15 2023

web servovalves are throttle valves for 3 and preferably 4 way applications they are a high performance two stage design that covers the range of rated flows from 25 to 60 gpm at

moog power generation optimized servo valve pgo - Nov 12 2022

web manufacturer moog type servo valve model d651 471d model d651 484d voltage 15 vdc preesure max 350 bar servo valves moog moog servo valves and servo

moog servo valve j682 jetpack theaoi - Sep 10 2022

web moog servo valve j682 pdf introduction moog servo valve j682 pdf pdf title moog servo valve j682 pdf pdf bukuclone ortax org created date 9 14 2023 1 23 00

62 series servo valves moog inc - Jun 19 2023

web the d680 series proportional flow control valves are throttle valves for 2 3 4 and 5 way applications these valves are suitable for electrohydraulic position velocity

moog servo valve j682 cdn writermag com - Jan 02 2022

moog servo valve j682 files climagic org - Feb 03 2022

web moog servo valve j682 1 moog servo valve j682 radar the lure elements of differential geometry federal clerical exam when an echo returns moog servo

32 series direct operated servo valves with analog - Mar 16 2023

web designed for high end performance in demanding heavy industry applications the moog d672 servovalve represents a great leap forward in valve

72 series installation and operation instruction moog inc - Apr 17 2023

web moog 72 series flow control servo valves the 72 series flow control servo valves are throttle valves for 3 and preferably 4 way applications they are a high performance 2

pdf moog servo valve j682 cyberlab sutd edu sg - Aug 09 2022

web moog servo valve j682 1 moog servo valve j682 elements of differential geometry federal clerical exam the lure when an echo returns radar moog servo valve j682

moog servo valves - Jul 20 2023

web moog is a global leader in designing manufacturing and selling high performance hydraulic valves with over 60 years

experience producing

singapore moog com sg - Sep 22 2023

web our world class product lines in servo and proportional valves servo motors and drives servo actuators motion systems controllers and software and slip rings for data and

moog servo valve j682 2023 selection plasticsurgery org - May 06 2022

web title moog servo valve j682 full pdf jmsseniorliving com author french eva created date 9 19 2023 6 51 16 am $remote\ control\ kit\ p\ n\ 173286\ and\ 173287\ crowley\ marine$ - Feb 26 2023

web feb 12 2019 remote control is for use with all johnson and evinrude models thru 40 hp except 1982 and later 20 25 35 40 hp remote electric start models this control is not recommended for use on outboards without start in gear prevention feature

twin johnson control box parts diagram antique outboard motor club inc - Jan 28 2023

web jun 20 2022 i was wondering if anyone on here had a digital form of a 50 s 60 s twin johnson or evinrude remote control box parts diagram i am planning on running twins and have a supply of single control boxes for parts which i want to scrounge and hopefully put together a twin out of them

johnson outboard controls diagram headcontrolsystem - Apr 18 2022

web jan 24 2023 johnson outboard controls diagram see the johnson outboard controls diagram images below johnson outboard controls diagram johnson outboard throttle control box diagram free diagram for student johnson outboard controls diagram 35 johnson outboard control box diagram wiring diagram

johnson outboard throttle control box diagram - Aug 23 2022

web johnson outboard throttle control box diagram june 20th 2018 purchased new 2008 115 etec including control box and cables in june 2008 to replace my 1995 115 evinrude since day 1 the throttle lever has been very stiff and difficult **johnson outboard owners operators manual 6hp 1977** - Mar 18 2022

web description vintage johnson outboard owners operators manual 6hp 1977 english and french languages in black and white 50 pages covers models 6r77 6rl77 note some shared features with the 1978 and 1979 models 6r76 6rl76 and 6r78 6rl78

boat engine side mount remote control box 5006180 for johnson evinrude - Jul 22 2022

web dec $5\ 2017$ buy boat engine side mount remote control box 5006180 for johnson evinrude omc brp outboard motor remote control systems amazon com free delivery possible on eligible purchases

johnson outboard 115hp oem parts diagram for remote control - Oct 25 2022

web buy oem parts for johnson outboard 115hp remote control diagram my garage location order help check order status

help info contact us sign throttle lever 0323757 unavailable 31 washer remote control box 0329362 ships in 2 to 3 days 26 99 24 83 add 85 keeper plate 0330865

prewired surface mount remote control installation instructions - Sep 04 2023

web feb 14 2019 to prevent trim tilt switch wiring from being damaged route wires carefully and provide adequate slack in wiring refer to remote control configuration diagrams remove control lever cover and note wire position and routing and position of wiring shield route wire based on diagram for your specific control lever configuration

binnacle mount remote control installation and user guide - Jul 02 2023

web sep 4 2020 place remote control at proposed location and check clearance around remote control handle at full throttle in forward and then at full throttle in reverse there must be at least 2 5 in 64 mm of clearance between the handle and any part of the boat throughout the control handle travel 005473

johnson evinrude outboard accessories by year 1972 to 2012 - Apr 30 2023

web find johnson evinrude accessories select the year of your motor to shop by parts diagram for johnson evinrude accessory parts evinrude and johnson motors are often fitted with optional accessory parts on the engine or they can be paired with external accessories electrical accessories ac lighting

brp omc johnson evinrude control box rebuild and throttle - Oct 05 2023

web jun 14 2017 95k views 6 years ago this is the only how to video on the 80s and 90s omc control box on youtube used in johnson and evinrude applications mysteries are explored problems are found and

johnson evinrude outboard control boxes harnesses - Sep 23 2022

web new wsm johnson evinrude 2001 2015 outboard control box assembly oem 0177225 5006180 this listing is for a new wsm brand control box this control will work on all omc brp outboards from 2001 2015 replaces oem numbers 0177225 and 5006180 shipping additional shipping fees to alaska hawaii us territories or

johnson evinrude parts diagrams marine parts source - Aug 03 2023

web breakers boxes fuse boxes pv combiner boxes disconnects and accessories charge controllers circuit breakers surge protection

johnson brp outboard motors operator s guide boat yacht - May 20 2022

web download 2007 johnson 30hp 4 stroke operator s guide eng pdf 2007 johnson 30 tiller 4 stroke pdf adobe acrobat document 3 9 mb download since the founding of the company joseph armand bombardier in 1942 the name brp has become synonymous with quality and innovation

johnson evinrude omc new oem binnacle top console mount remote control - Jun 20 2022

web nov 11 2008 buy johnson evinrude omc new oem binnacle top console mount remote control 5006186 remote control

systems amazon com free delivery possible on eligible purchases

johnson remote control box diagram iboats boating forums - Jun 01 2023

web nov 11 2004 white omc dual function box fast idle lever is on inside mounting face and lifts from bottom with pivot point at middle of box when box halves are split the throttle cable attaches to side of box with the fast idle lever br my manual doesn t show anything about remote box

brp 5006181 installation instructions manual pdf - Dec 27 2022

web page 8 remote control configuration diagrams important refer to the following diagrams for proper trim tilt switch wire routing route the trim tilt wiring through the correct hole in control housing to allow proper movement of lever and **johnson control box controls steering boat parts inventory** - Feb 14 2022

web searching for johnson control box controls steering online locate johnson control box controls steering on sale below with the biggest choice of johnson control box controls steering anywhere online johnson evinrude outboard motor parts by year 1955 to 2011 - Mar 30 2023

web find accessories and kits by diagram for 1972 2012 johnson evinrude outboard motors find your engine drill down from the year horsepower model number and engine section to get an online inventory of genuine oem and johnson outboard throttle control box diagram knittystash com - Nov 25 2022

web jan 2 2023 johnson outboard throttle control box diagram see the johnson outboard throttle control box diagram images below

a history of the classical greek world 478 323 bc paperback - Feb 26 2022

web a history of the classical greek world 478 323 bc rhodes p j 9780631225652 books amazon ca

a history of the classical greek world 478 323 bc google - Aug 15 2023

web aug 24 2011 thoroughly updated and revised the second edition of this successful and widely praised textbook offers an account of the classical period of greek history from the aftermath of the

a history of the classical greek world 478 323 bc 2nd edition - Jun 13 2023

web thoroughly updated and revised the second edition of this successful and widely praised textbook offers an account of the classical period of greek history from the aftermath of the persian wars in 478 bc to the death of alexander the great in 323 bc

a history of the classical greek world 478 323 bc goodreads - Dec 07 2022

web this book gives an accessible account of classical greek history from the aftermath of the persian wars in 478 bc to the death of alexander the great in 323 bc covers political and military events including the flourishing of democracy in athens the peloponnesian war which involved the whole greek world and the conquests of alexander the

a history of the classical greek world 478 323 bc - May 12 2023

web feb 22 2010 glenn r bugh virginia tech thoroughly updated and revised the second edition of this successful and widely praised book offers an account of the classical period of greek history from the aftermath of the persian wars in 478 bc to the death of alexander the great in 323 bc

a history of the classical greek world 478 323 bc villanova - Jan 28 2022

web aspects of greek history 750 323 bc a source based approach by buckley terry 1946 published 2010 a companion to the classical greek world published 2006 the classical greeks by grant michael 1914 2004 published 1997

history of the classical greek world 478 323 bc open library - Aug 03 2022

web aug 20 2020 1 history of the classical greek world 478 323 bc 2011 wiley sons incorporated john in english 1405152028 9781405152020

a history of the classical greek world 478 323 bc blackwell history - Jan 08 2023

web a history of the classical greek world 478 323 bc blackwell history of the ancient world rhodes p j amazon com tr kitap a history of the classical greek world 478 323 b c - Jul 14 2023

web a history of the classical greek world 478 323 b c by rhodes p j peter john publication date 2006 topics greece history to 146 b c publisher malden mass blackwell pub

a history of the classical greek world 478 323 bc goodreads - Nov 06 2022

web aug 1 2005 a history of the classical greek world 478 323 bc p j rhodes 3 49 45 ratings5 reviews this book gives an accessible account of classical greek history from the aftermath of the persian wars in 478 bc to the death of alexander the great in 323 bc genres history nonfictionancient historygreececlassicsancientreference 424 pages

a history of the classical greek world 478 323 bc - Mar 10 2023

web oct 3 2005 this book gives an accessible account of classical greek history from the aftermath of the persian wars in 478 bc to the death of alexander the great in 323 bc covers political and

a history of the classical greek world 478 323 bc - Apr 30 2022

web thoroughly updated and revised the second edition of this successful and widely praised textbook offers an account of the classical period of greek history from the aftermath of the persian wars in 478 bc to the death of alexander the great in 323 bc

a history of the classical greek world 478 323 bc 2nd - Apr 11 2023

web thoroughly updated and revised the second edition of this successful and widely praised textbook offers an account of the classical period of greek history from the aftermath of the persian wars in 478 bc to the death of alexander the great in 323 bc

a history of the classical greek world 478 323 bc edition 2 - Sep 04 2022

web feb 22 2010 overview thoroughly updated and revised the second edition of this successful and widely praised textbook offers an account of the classical period of greek history from the aftermath of the persian wars in 478 bc to the death of alexander the great in 323 bc

a history of the classical greek world 478 323 bc blackwell history - Dec 27 2021

web a history of the classical greek world 478 323 bc blackwell history of the ancient world book 12 ebook rhodes p j amazon com au books

a history of the classical greek world 478 323 bc open library - Oct 05 2022

web jan 2 2023 a history of the classical greek world 478 323 bc by p j rhodes 2010 wiley blackwell edition in english 2nd ed

a history of the classical greek world 478 323 bc google - Feb 09 2023

web thoroughly updated and revised the second edition of this successful and widely praised textbook offers an account of the classical period of greek history from the aftermath of the persian wars in 478 bc to the death of alexander the great in 323 bc

a history of the classical greek world 478 323 bc 11 - Jul 02 2022

web thoroughly updated and revised the second edition of this successful and widely praised textbook offers an account of the classical period of greek history from the aftermath of the persian wars in 478 bc to the death of alexander the great in 323 bc

a history of the classical greek world 478 323 bc blackwell history - Jun 01 2022

web aug 24 2011 glenn r bugh virginia tech thoroughly updated and revised the second edition of this successful and widely praised book offers an account of the classical period of greek history from the aftermath of the persian wars in 478 bc to the death of alexander the great in 323 bc

a history of the classical greek world 478 323 bc - Mar 30 2022

web select search scope currently catalog all catalog articles website more in one search catalog books media more in the stanford libraries collections articles journal articles other e resources