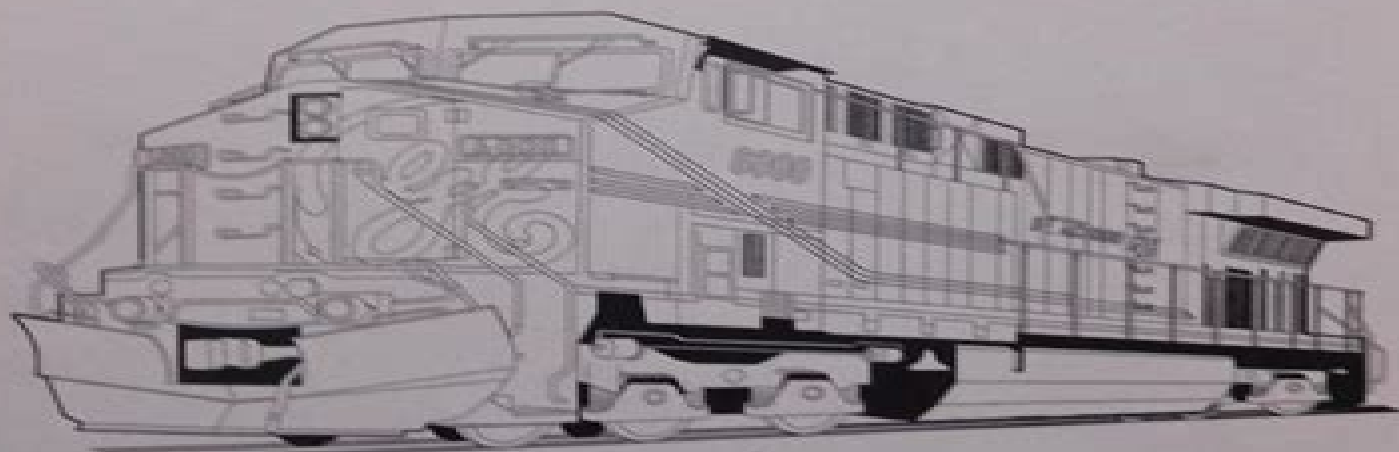




GEJ-6808

AC6000 CW Locomotive



Operating Manual

PRINTED IN BLACK, PLATE EXCEPT FOR LARGER PINK LINES

Ge Locomotive Operators Manual

M Mosston



Ge Locomotive Operators Manual:

When people should go to the books stores, search instigation by shop, shelf by shelf, it is essentially problematic. This is why we present the ebook compilations in this website. It will no question ease you to see guide **Ge Locomotive Operators Manual** as you such as.

By searching the title, publisher, or authors of guide you essentially want, you can discover them rapidly. In the house, workplace, or perhaps in your method can be every best place within net connections. If you point to download and install the Ge Locomotive Operators Manual, it is definitely simple then, in the past currently we extend the connect to buy and create bargains to download and install Ge Locomotive Operators Manual as a result simple!

https://staging.conocer.cide.edu/results/virtual-library/Download_PDFS/history_social_change_in_east_africa.pdf

Table of Contents Ge Locomotive Operators Manual

1. Understanding the eBook Ge Locomotive Operators Manual
 - The Rise of Digital Reading Ge Locomotive Operators Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Ge Locomotive Operators Manual
 - 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 Ge Locomotive Operators Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ge Locomotive Operators Manual
 - Personalized Recommendations
 - Ge Locomotive Operators Manual User Reviews and Ratings
 - Ge Locomotive Operators Manual and Bestseller Lists

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

Ge Locomotive Operators Manual Introduction

In today's digital age, the availability of Ge Locomotive Operators Manual books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of Ge Locomotive Operators Manual books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Ge Locomotive Operators Manual books and manuals for download is the cost-saving aspect. Traditional books and manuals can be costly, especially if you need to purchase several of them for educational or professional purposes. By accessing Ge Locomotive Operators Manual versions, you eliminate the need to spend money on physical copies. This not only saves you money but also reduces the environmental impact associated with book production and transportation. Furthermore, Ge Locomotive Operators Manual books and manuals for download are incredibly convenient. With just a computer or smartphone and an internet connection, you can access a vast library of resources on any subject imaginable. Whether you're a student looking for textbooks, a professional seeking industry-specific manuals, or someone interested in self-improvement, these digital resources provide an efficient and accessible means of acquiring knowledge. Moreover, PDF books and manuals offer a range of benefits compared to other digital formats. PDF files are designed to retain their formatting regardless of the device used to open them. This ensures that the content appears exactly as intended by the author, with no loss of formatting or missing graphics. Additionally, PDF files can be easily annotated, bookmarked, and searched for specific terms, making them highly practical for studying or referencing. When it comes to accessing Ge Locomotive Operators Manual books and manuals, several platforms offer an extensive collection of resources. One such platform is Project Gutenberg, a nonprofit organization that provides over 60,000 free eBooks. These books are primarily in the public domain, meaning they can be freely distributed and downloaded. Project Gutenberg offers a wide range of classic literature, making it an excellent resource for literature enthusiasts. Another popular platform for Ge Locomotive Operators Manual books and manuals is Open Library. Open Library is an initiative of the Internet Archive, a non-profit organization dedicated to digitizing cultural artifacts and making them accessible to the public. Open Library hosts millions of books, including both public domain works and contemporary

titles. It also allows users to borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare, which offers free access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of America, which provides a vast collection of digitized books and historical documents. In conclusion, Ge Locomotive Operators Manual books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an ever-expanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of Ge Locomotive Operators Manual books and manuals for download and embark on your journey of knowledge?

FAQs About Ge Locomotive Operators Manual Books

1. Where can I buy Ge Locomotive Operators Manual 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 Ge Locomotive Operators Manual 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 Ge Locomotive Operators Manual 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 Ge Locomotive Operators Manual 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 Ge Locomotive Operators Manual books for free? Public Domain Books: Many classic books are available for free as they're in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Ge Locomotive Operators Manual :

history social change in east africa

history of the atkinson morleys hospital 1869-1995

history of psychology ideas and context

history of the heavyweights

hitlers siegfried line

hitlers slave lords

history of the cornish china clay indust

history of the us liberty for all 1820-1860

history of the canadian peoples 1867-present

history of the math theories of attracti

history of theatrical art volume 1 earliest

history of the catholic church in the us

history of warfare art of war war and military thought

history of the peoples of the british a
history of religions in the caribbean

Ge Locomotive Operators Manual :

le dalaï lama homme moine et mystique grand format - Jan 13 2023

web jun 11 2008 le dalaï lama homme moine et mystique de plongez vous dans le livre mayank chhaya au format grand format ajoutez le à votre liste de souhaits ou

amazon com le dalaï lama homme moine mystique - Apr 16 2023

web jun 11 2008 amazon com le dalaï lama homme moine mystique spiritualité 9782845922532 mayank chhaya books

le dalaï lama homme moine mystique lecteurs com - Apr 04 2022

web jun 11 2008 en 1997 le dalaï lama a autorisé mayank chhaya à rédiger sa biographie lui accordant depuis une douzaine d interviews au temple de mcLeodganj près de le

le dalaï lama homme moine et mystique - Feb 02 2022

web vision de la vie éclairée par le dharma bouddhiste et un savoir thérapeutique unique au monde enfin le récit des atrocités commises par les chinois constitue un témoignage

le dalaï lama homme moine mystique homme moine - Mar 15 2023

web le dalaï lama est à la fois homme moine et mystique de par son combat pour le tibet l homme est le plus connu parfois cependant c est le moine ses options morales sa

le dalaï lama océan de sagesse psychologies com - Jan 01 2022

web 1935 naissance de tenzin gyatso dans la province de l amdo au nord est du tibet 1937 reconnu comme réincarnation du treizième dalaï lama 1940 intronisation comme

le dalaï lama homme moine mystique goodreads - Sep 09 2022

web en 1997 le dalaï lama a autorisé mayank chhaya à rédiger sa biographie lui accordant depuis le dalaï lama homme moine mystique spiritualité by mayank chhaya

le dalaï lama homme moine mystique fnac - Sep 21 2023

web homme moine mystique le dalaï lama homme moine mystique mayank chhaya presses chatelet des milliers de livres avec la livraison chez vous en 1 jour ou en

le dalaï lama homme moine et mystique pdf textra com - May 05 2022

web 2 le dalaï lama homme moine et mystique 2023 07 16 le dalaï lama homme moine et mystique downloaded from textra com tw by guest navarro heath in their

le dalaï lama homme moine et mystique grand format - Nov 11 2022

web jun 11 2008 le dalaï lama homme moine et mystique de mayank chhaya Éditeur presses du châtelet livraison gratuite à 0 01 dès 35 d achat librairie decitre votre

le dalaa lama homme moine et mystique - Aug 20 2023

web le dalaa lama homme moine et mystique studia missionalia vol 28 feb 02 2023 dieu veut des dieux oct 30 2022 dans ce texte enthousiasmant et libérateur à la lisière de

le dalaï lama homme moine mystique 2845922531 cultura - Jun 18 2023

web le dalaï lama homme moine mystique aux éditions archipel en 1997 le dalaï lama a autorisé mayank chhaya à rédiger sa biographie lui accordant depuis une douzaine

dalaï lama le homme moine mystique par mayank chhaya - May 17 2023

web jul 2 2008 mayank chhaya est le premier non bouddhiste autorisé par le dalaï lama à rédiger sa biographie il livre ici le fruit de dix années de rencontres et d échanges au

sa sainteté le 14e dalaï lama sa sainteté le 14e dalaï lama - Mar 03 2022

web thekchèn tcheuling dharamsala inde suite au décès de l homme politique diplomate et homme d état tchèque karel schwarzenberg sa sainteté le dalaï lama a écrit à sa

le dalaï lama historia fr - Jun 06 2022

web le leader spirituel du bouddhisme tibétain fête ce mois ci le 60e anniversaire de son exil en inde le 17 mars 1959 tenzin gyatso menacé par les autorités chinoises entreprend

pdf le dalaa lama homme moine et mystique - Jul 07 2022

web le dalaa lama homme moine et mystique joni mitchell l a jazz scene l a jazz scene jun 30 2020 joni mitchell l a jazz scene l a jazz scene auteurs public

le dalaï lama homme moine et mystique by mayank chhaya - Nov 30 2021

web le dalaï lama homme moine et mystique by mayank chhaya dalaa macr lama sur la conscience les emotions et la santa le moine fou online kptm edu my 10 47 tome 9 le

le dalaï lama homme moine et mystique amazon fr - Oct 22 2023

web retrouvez le dalaï lama homme moine et mystique et des millions de livres en stock sur amazon fr achetez neuf ou d occasion amazon fr le dalaï lama homme moine

document le dalaï lama homme moine mystique catalogue - Feb 14 2023

web en 1997 le dalaï lama a autorisé m chhaya à rédiger sa biographie lui accordant depuis une douzaine d interviews au temple de mcLeodganj près de dharamsala siège du

le dalaa lama homme moine et mystique - Aug 08 2022

web interruption que le demi sicle avignonnais c est la papaut qui s est constitue en pouvoir politique se revendiquant d une double autorit spirituelle et morale et s incarnant en un

le dalaï lama homme moine et mystique paperback - Jul 19 2023

web buy le dalaï lama homme moine et mystique by chhaya mayank delage laurence isbn 9782845922532 from amazon s book store everyday low prices and free

le dalaa lama homme moine et mystique alain grosrey copy - Dec 12 2022

web le dalaa lama homme moine et mystique le dalaa lama homme moine et mystique 2 downloaded from rjonline org on 2020 11 18 by guest une histoire des dalaï

le dalaï lama homme moine et mystique label emmaüs - Oct 10 2022

web mayank chhaya est le premier non bouddhiste autorisé par le dalaï lama à rédiger sa biographie chinez en ligne près de chez vous en saisissant votre code postal les

investing in liquid assets book by david sokolin alexandra - May 16 2023

web investing in liquid assets uncorking profits in today s global wine market by david sokolin and alexandra bruce trade paperback list price 19 99 price may vary by retailer get a free ebook by joining our mailing list today plus receive recommendations and exclusive offers on all of your favorite books and authors from

investing in liquid assets uncorking profits in today s global - Feb 13 2023

web mar 5 2011 in simple practical terms investing in liquid assets provides all the information you need to understand the economic principles that govern the world of fine wine and take advantage of the resources currently available

investing in liquid assets uncorking profits in today s - Nov 29 2021

web investing in liquid assets uncorking profits in today s global wine market hardcover 3 72 avg rating 40 ratings by isbn 10 1416550178 isbn 13 9781416550174 simon schuster this specific isbn edition is currently not

pdf investing in liquid assets by david sokolin perlego - Dec 11 2022

web ebook epub investing in liquid assets uncorking profits in today s global wine market david sokolin alexandra bruce book details book preview table of contents citations about this book now more than ever the value of investment grade wines igws and opportunities to invest in wine as an asset class are soaring

investing in liquid assets uncorking profits in today s global - Oct 21 2023

web mar 5 2011 investing in liquid assets uncorking profits in today s global wine market sokolin david on amazon com free shipping on qualifying offers investing in liquid assets uncorking profits in today s global wine market

investing in liquid assets uncorking profits in today s global wine - Nov 10 2022

web investing in liquid assets uncorking profits in today s global wine market sokolin david free download borrow and streaming internet archive v 288 p 25 cm skip to main content due to a planned power outage on friday 1 14 between 8am 1pm pst some services may be impacted internet archive logo

[investing in liquid assets uncorking profits in today s global](#) - Sep 20 2023

web investing in liquid assets uncorking profits in today s global wine market sokolin david bruce alexandra amazon sg books

[investing in liquid assets uncorking profits in today s global](#) - Dec 31 2021

web may 6 2008 alexandra bruce david sokolin investing in liquid assets uncorking profits in today s global wine market kindle edition by david sokolin author alexandra bruce author format kindle edition 27 ratings see all formats and editions kindle 14 99 read with our free app hardcover

investing in liquid assets uncorking profits in today s global - Jun 05 2022

web may 6 2008 david sokolin alexandra bruce investing in liquid assets uncorking profits in today s global wine market kindle edition by david sokolin author alexandra bruce author contributor format kindle edition 4 6 39 ratings see all formats and editions kindle edition 9 49 read with our free app hardcover 33 18 7 used from

investing in liquid assets uncorking profits in today s global - Aug 19 2023

web may 6 2008 david sokolin investing in liquid assets uncorking profits in today s global wine market hardcover may 6 2008 by david sokolin author alexandra bruce author 4 7 39 ratings see all formats and editions kindle 14 99 read with our free app hardcover 7 97 10 used from 7 95 1 new from 19 95 paperback

[what are liquid investments myra personal finance for](#) - Feb 01 2022

web a liquid investment is an investment you can quickly turn into cash or cash itself liquid investments and cash are equivalent because you can convert liquid assets into cash while retaining its value in order for an investment to be liquid there must be a demand or market for it and it must be easy to transfer

[investing in liquid assets uncorking profits in today s global](#) - Jun 17 2023

web may 6 2008 investing in liquid assets uncorking profits in today s global wine market david sokolin alexandra bruce simon and schuster may 6 2008 business economics 320 pages now more than

understanding liquidity and liquid assets forbes - Aug 07 2022

web sep 2 2022 liquidity describes your ability to exchange an asset for cash the easier it is to convert an asset into cash the more liquid it is and cash is generally considered the most liquid asset cash

what is a liquid asset and what are some examples investopedia - Mar 02 2022

web aug 4 2022 liquid asset a liquid asset is an asset that can be converted into cash quickly with minimal impact to the price received in the open market liquid assets include money market instruments and

investing in liquid assets uncorking profits in today s global - Apr 15 2023

web buy investing in liquid assets uncorking profits in today s global wine market by sokolin david isbn 9781416550181 from amazon s book store everyday low prices and free delivery on eligible orders

what are liquid assets definition examples importance business insider - May 04 2022

web paid non client promotion in some cases we receive a commission from our partners our opinions are always our own
liquid assets are assets that are easily and simply converted to cash

buy investing in liquid assets uncorking profits in today s - Apr 03 2022

web investing in liquid assets uncorking profits in today s global wine market by david sokolin and alexandra bruce select format paperback 15 08 select conditions good 15 08 new 19 99 see all editions book overview

investing in liquid assets uncorking profits in today s global - Sep 08 2022

web now more than ever the value of investment grade wines igws and opportunities to invest in wine as an asset class are soaring with a little research and a little risk wine enthusiasts on every level will find it possible to gain big rewards in wine investment and there s never been a better time to try

investing in liquid assets on apple books - Mar 14 2023

web may 6 2008 14 99 publisher description now more than ever the value of investment grade wines igws and opportunities to invest in wine as an asset class are soaring with a little research and a little risk wine enthusiasts on every level will find it possible to gain big rewards in wine investment and there s never been a better time to try

15 best books on wine investing you ve got to read vinovest - Jul 06 2022

web investing in liquid assets uncorking profits in today s global wine market cellaring wine managing your wine collection to perfection how and why to build a wine cellar world atlas of wine wine simple a totally approachable guide from a world class sommelier hugh johnson s pocket wine 2022 the no 1 best selling wine guide

investing in liquid assets uncorking profits in today s global - Jan 12 2023

web investing in liquid assets uncorking profits in today s global wine market ebook written by david sokolin alexandra bruce read this book using google play books app on your pc android ios devices

investing in liquid assets uncorking profits in today - Jul 18 2023

web jan 1 2008 investing in liquid assets uncorking profits in today s global wine market by david sokolin goodreads jump to ratings and reviews want to read kindle 14 99 rate this book investing in liquid assets uncorking profits in today s global wine market david sokolin alexandra bruce 3 73 40 ratings3 reviews

investing in liquid assets uncorking profits in today s global - Oct 09 2022

web abebooks com investing in liquid assets uncorking profits in today s global wine market 9781416550181 by sokolin david

and a great selection of similar new used and collectible books available now at great prices

labview core 1 exercises ni - Aug 02 2022

web the labwindows cvi core 1 course is recommended for new users with c programming experience users and technical managers evaluating labwindows cvi and users

labviewtm core 1 participant guide ni - Feb 08 2023

web the first step in the labview learning path the labview core 1 course gives you the chance to explore the labview environment and interactive analysis dataflow

labview core1 course manual pdf free pdf manuals dl - Mar 29 2022

web sep 12 2023 theory of knowledge tok is assessed through an exhibition and a 1 600 word essay it asks students to reflect on the nature of knowledge and on how we know

labview core 1 pdf document - Jul 13 2023

web feb 17 2016 click install the course materials 3 follow the onscreen instructions to complete installation and setup exercise files are located in the exercises labview

labview core 1 training course national instruments - Mar 09 2023

web worldwide technical support and product information ni com national instruments corporate headquarters 11500 north mopac expressway austin texas 78759 3504

labview core 1 course overview ni - Dec 06 2022

web the labview core 1 course helps you explore the labview environment dataflow programming and common labview development techniques in this course you will

download freeware labview core 1 training course ni community - May 31 2022

web 1 inserte el cd del curso en el ordenador aparecerén los cuadros de dialogo de labview core 1 course setup 2 haga clic en install the course materials 3 siga las

labview core 1 course manual pdf pdf scribd - Nov 05 2022

web 1 open manipulating arrays lvproj in the exercises labview core 1 manipulating arrays directory 2 open array manipulation vi from the project explorer sample window the

labview tm core 1 course manual course software - Jun 12 2023

web labwindowstm cvitm core 1 course manual labwindowstm cvitm core 1course manual course software version 2010january 2011 editionpart number 325668a 01

labview core 1 course ni - Sep 03 2022

web jan 2 2020 re download freeware labview core 1 training course 01 03 2020 09 58 am the labview wiki is also a good

start the online training section is probably what

lab view core 1 course manual pdf scribd - Apr 10 2023

web the labview core 1 course teaches you programming concepts techniques features vis and functions you can use to create test and measurement data acquisition

core 1 book ni - Jan 07 2023

web labwindows cvi core 1 course manual 4 2 ni com 4 bundle the executable into a distribution use the manage distributions dialog box to add edit or remove the distributions

core 1 book ni - Aug 14 2023

web labviewtm core 1 course manual course software version 2010 august 2010 edition part number 325290b 01 labview core 1 course manual copyright 1993 2010

labwindows cvi core 1 exercises ni - Oct 04 2022

web apr 12 2023 is there any way to obtain a hard copy of the labview classroom training booklets for core 1 and core 2 solution ni no longer offers the printed course

labwindows cvi core 1 course ni - Apr 29 2022

web view 2012 labview core 1 exercises manual pdf from elect eng 101 at cairo university tm labview core 1 exercises course software version 2012 august 2012

labview core1 manual de curso pdf pdf scribd - Feb 25 2022

web core lab a term of art referring to a consolidated diagnostic laboratory usually understood to be located at a distance from an acute hospital trust in the uk which

labwindows cvi core 1 course manual ni - May 11 2023

web beatrice secosan description lab view core 1 course manual manual instrumentatie virtuala copyright attribution non commercial by nc available formats download as

labview core 1 course manual ni - Oct 24 2021

obtain hard copy of labview core 1 and 2 course manual ni - Jul 01 2022

web labview core1 course manual the preview only show first 10 pages of manuals please download to view the full documents loading preview please wait submitted

theory of knowledge international baccalaureate - Dec 26 2021

web jul 12 2017 to get the most out of this course complete all the suggested reading material viii ni com labview core 1 course manual to access each of the following

core lab definition of core lab by medical dictionary - Nov 24 2021

labview core1 course manual free download pdf - Sep 22 2021

2012 labview core 1 exercises manual pdf course hero - Jan 27 2022

web labview core 1 course manual 5 2 ni com a arrays an array consists of elements and dimensions elements are the data that make up the array a dimension is the length