MURATEC Fax



F-320

Multifunction WORKHORSE

The F-320 sets the industry standard in reliability and durability.



Key Specifications:

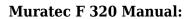
- > 13 page per minute printing
- > 33.6 Kbps fax modem
- > 80 sheet automatic document feeder
- > Rapid warm-up time and high-speed scanner
- > Large, flexible paper capacity





Muratec F 320 Manual

AW Rasmussen



Muratec F 320 Manual Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "Muratec F 320 Manual," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact 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/data/book-search/Documents/interpreting%20the%20pauline%20epistles.pdf

Table of Contents Muratec F 320 Manual

- 1. Understanding the eBook Muratec F 320 Manual
 - The Rise of Digital Reading Muratec F 320 Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Muratec F 320 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 Muratec F 320 Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Muratec F 320 Manual
 - Personalized Recommendations
 - Muratec F 320 Manual User Reviews and Ratings
 - Muratec F 320 Manual and Bestseller Lists
- 5. Accessing Muratec F 320 Manual Free and Paid eBooks

- Muratec F 320 Manual Public Domain eBooks
- Muratec F 320 Manual eBook Subscription Services
- Muratec F 320 Manual Budget-Friendly Options
- 6. Navigating Muratec F 320 Manual eBook Formats
 - o ePub, PDF, MOBI, and More
 - Muratec F 320 Manual Compatibility with Devices
 - Muratec F 320 Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Muratec F 320 Manual
 - Highlighting and Note-Taking Muratec F 320 Manual
 - Interactive Elements Muratec F 320 Manual
- 8. Staying Engaged with Muratec F 320 Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Muratec F 320 Manual
- 9. Balancing eBooks and Physical Books Muratec F 320 Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Muratec F 320 Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Muratec F 320 Manual
 - Setting Reading Goals Muratec F 320 Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Muratec F 320 Manual
 - Fact-Checking eBook Content of Muratec F 320 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

Muratec F 320 Manual 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 Muratec F 320 Manual 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 Muratec F 320 Manual 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 Muratec F 320 Manual 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 Muratec F 320 Manual Books

What is a Muratec F 320 Manual 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 Muratec F 320 Manual 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 Muratec F 320 Manual 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 Muratec F 320 Manual 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 Muratec F 320 Manual 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 Muratec F 320 Manual:

interpreting the pauline epistles

into the depths of prayer

internet champions handbook

international rectifier corp eng handbook

international thesaurus of refugee terminology international refugee documentation network

intervention the use of american military force in the post-cold war world

intimate letters of carl schurz 1841 to 1869

interrelations of the gospels

internet guide to cosmetic surgery for women

interviewing for a career in public accounting

international tourism policy

international tables for cryst

internet everything you need to know about computer networking and how the internet works

<u>interstellar procebes</u>

into the light study guide

Muratec F 320 Manual:

storytelling with data - Jul 07 2022

web storytelling with data members exercises undertake targeted practice by completing the latest exercise or browse the exercise bank and tackle one relevant to a current project or your data communication development goals do you need that

identify eliminate clutter

storytelling with data let s practice kapak değişebilir - May 17 2023

web let's practice helps you build confidence and credibility to create graphs and visualizations that make sense and weave them into action inspiring stories expanding upon best seller storytelling with data's foundational lessons let's practice delivers fresh content a plethora of new examples and over 100 hands on exercises

storytelling with data let's practice google play - Feb 14 2023

web it is a one of a kind immersive learning experience through which you can become or teach others to be a powerful data storyteller let's practice helps you build confidence and credibility to create graphs and visualizations that make sense and weave them into action inspiring stories

storytelling with data let s practice pdf zlib pub - Jan 01 2022

web it is a one of a kind immersive learning experience through which you can become or teach others to be a powerful data storyteller let's practice helps you build confidence and credibility to create graphs and visualizations that make sense and weave them into action inspiring stories

let s practice storytelling with data - Jun 06 2022

web aug 27 2019 in total let's practice contains more than 100 hands on exercises and over 250 data visualizations as you can imagine putting words and graphs and illustrations together on that scale was no small endeavor

storytelling with data let's practice goodreads - Dec 12 2022

web oct 22 2019 it is a one of a kind immersive learning experience through which you can become or teach others to be a powerful data storyteller let's practice helps you build confidence and credibility to create graphs and visualizations that make sense and weave them into action inspiring stories

storytelling with data let's practice wiley - Jul 19 2023

web practice at work practical guidance and hands on exercises for applying storytelling with data lessons on the job including instruction on when and how to solicit useful feedback and refine for greater impact

story
telling with data let s practice worldcat org - Aug
 $08\ 2022$

web it is a one of a kind immersive learning experience through which you can become or teach others to be a powerful data storyteller let's practice helps you build confidence and credibility to create graphs and visualizations that make sense and weave them into action inspiring stories

let's practice downloads storytelling with data - Aug 20 2023

web are you ready to hone your data storytelling skills here is where you ll find files for the data and graphs from the exercises and select solutions from storytelling with data let s practice

storytelling with data by cole nussbaumer knaflic scribd - May 05 2022

web storytelling with data let's practice show full title by cole nussbaumer knaflic 4 5 34 ratings about this ebook influence action through data this is not a book it is a one of a kind immersive learning experience through which you can become or teach others to be a powerful data storyteller

storytelling with data let s practice pdf zlib pub - Sep 09 2022

web storytelling with data let's practice author cole nussbaumer knaflic category computers organization and data processing tags data visualization best practices design attention storytelling communication language english isbn 1119621496 9781119621492 year 2019 pages 448 file size 141 8 mb total downloads 6 413

storytelling with data book o reilly media - Nov 11 2022

web it is a one of a kind immersive learning experience through which you can become or teach others to be a powerful data storyteller let's practice helps you build confidence and credibility to create graphs and visualizations that make sense and weave them into action inspiring stories

storytelling with data let s practice amazon com - Mar 15 2023

web oct 9 2019 expanding upon best seller storytelling with data s foundational lessons let s practice delivers fresh content a plethora of new examples and over 100 hands on exercises author and data storytelling maven cole nussbaumer knaflic guides you along the path to hone core skills and become a well practiced data communicator each storytelling with data let s practice amazon com - Jun 18 2023

web oct 22 2019 this is not a book it is a one of a kind immersive learning experience through which you can become or teach others to be a powerful data storyteller let's practice helps you build confidence and credibility to create graphs and visualizations that make sense and weave them into action inspiring stories

storytelling with data let's practice paperback amazon co uk - Apr 04 2022

web this is not just a book it is a one of a kind immersive learning experience through which you can become or teach others to be a powerful data storyteller let's practice helps you build confidence and credibility to create graphs and visualizations that make sense and weave them into action inspiring stories

storytelling with data let's practice google books - Apr 16 2023

web oct 9 2019 it is a one of a kind immersive learning experience through which you can become or teach others to be a powerful data storyteller let s practice helps you build confidence and

storytelling with data let's practice paperback amazon ca - Oct 10 2022

web storytelling with data let's practice paperback illustrated oct 22 2019 by cole nussbaumer knaflic author 4 7 622 ratings see all formats and editions kindle edition

storytelling with data let's practice 7 2 exercise looker studio - Mar 03 2022

web looker studio turns your data into informative dashboards and reports that are easy to read easy to share and fully customizable

storytelling with data let's practice paperback amazon com au - Feb 02 2022

web this is not a book it is a one of a kind immersive learning experience through which you can become or teach others to be a powerful data storyteller let's practice helps you build confidence and credibility to create graphs and visualizations that make sense and weave them into action inspiring stories

two best selling storytelling with data - Jan 13 2023

web storytelling with data let's practice 400 pages of content exercises order now influence action through data this is not a book it is a one of a kind immersive learning experience through which you can become or teach others to be a powerful data storyteller let's practice

revise aqa gcse geography revision workbook pearson - Jul 08 2022

web our revision workbooks are designed to help you develop vital skills throughout the course in preparation for the exam with one to one page match with the revision guide so you can find the practice you need quickly and easily

aqa gcse geography assessment resources - Jun 19 2023

web jul 14 2023 assessment resources exampro searchable past paper questions topic tests marks and examiner comments exampro co uk promoted centre declaration form non exam assessment fieldwork and live performance 2025 new centre declaration form non exam assessment fieldwork and live performance 2025 new

gcse 9 1 geography aga exam practice grades 7 9 with all - May 06 2022

web buy gcse 9 1 geography aqa exam practice grades 7 9 with all you need to know for your 2022 assessments 1 by rowles nicholas ross simon digby bob isbn 9781382009591 from amazon s book store everyday low

gcse 9 1 geography aga revision guide get revision with results gcse - Jun 07 2022

web the gcse 9 1 geography aga revision guide is the most student friendly revision resource for the aga gcse geography specification written to help students to consolidate key knowledge for every topic accessible clear and thorough this revision guide engages all your students

gcse 9 1 geography aga revision guide with online ed by - Sep 10 2022

web may 9 2016 this superb cgp revision guide explains everything students will need for success in grade 9 1 aga gcse geography it covers every topic from unit 1 physical geography and unit 2 human geography with crystal clear study notes examples and case studies plus exam style practice questions on most pages

gcse geography aga bbc bitesize - Sep 22 2023

web the royal geographical society seneca learning easy to understand homework and revision materials for your gcse geography aga 9 1 studies and exams

aqa gcse geography teaching resources - May 18 2023

web aqa gcse 9 1 geography second edition hoddereducation co uk authors john widdowson simon oakes michael witherick meryl king rebecca blackshaw sarah wheeler

gcse 9 1 geography aga student book second edition - Apr 17 2023

web jun 10 2022 description this thoroughly updated second edition is a student friendly and truly supportive resource including new graphs and maps and updated geographical data it motivates students with accessible topical content and case studies while retaining a rigorous approach

aqa gcse 9 1 geography revision notes study resources - Jul 20 2023

web aqa gcse geography mapping file download our comprehensive teaching resources and revision toolkit today use the mapping table to align with the aqa examination board

oxford smart aga gose science oxford university press - Mar 04 2022

web a refreshed approach shaping future science citizens oxford smart aga gose sciences brings gose specification support up to date and ready for the classroom of today print and digital resources via kerboodle provide exceptional time saving support and gives students the knowledge skills and confidence to achieve their learning goals aga geography gose geography - Oct 23 2023

web sep 12 2023 gcse geography 8035 find all the information support and resources you need to deliver our specification aga gcse geography past papers revision world - Aug 21 2023

web aqa gcse 9 1 geography 8035 past exam papers you can download the papers and marking schemes by clicking on the links below june 2022 aqa gcse geography 8035 past papers june 2022 8035 1 paper 1 living with the physical environment download paper download mark scheme

aga gcse geography specification at a glance - Nov 12 2022

web feb 16 2016 paper 1 living with the physical environment what s assessed 3 1 1 the challenge of natural hazards 3 1 2 the living world 3 1 3 physical landscapes in the uk 3 4 geographical skills how it s assessed written exam 1 hour 30 minutes 88 marks including 3 marks for spelling punctuation grammar and specialist terminology

exam practice gcse geography revision aga bbc bitesize - Dec 13 2022

web practise your aqa geography gcse exam skills with free interactive tests based on past papers to boost your understanding of natural hazards fieldwork and more gcse geography aqa

aga gcse geography past papers gcse 9 1 examination paper gcse - Oct 11 2022

web download our collection of aqa gcse 9 1 geography past papers mark schemes these are available to you completely free of charge download use today

aqa gcse geography second edition secondary oup - Feb 15 2023

web a student friendly approach with built in skills support show all resources in gcse 9 1 geography aga 2nd edition buy or evaluate using the series order form completely up to date editions of our bestselling resources for gcse with up to date exam support new graphs and maps and updated geographical data

gcse 9 1 geography a pearson qualifications - Apr 05 2022

web the pearson edexcel level 1 level 2 gcse 9 1 in geography a consists of three externally examined papers students must complete all assessments in may june in any single year

geography answers and mark schemes oxford university press - Mar 16 2023

web aqa activate for ks3 aqa geography a level as 2016 aqa a level maths aqa gcse french aqa gcse sciences 9 1 edexcel a level maths gcse 9 1 geography aqa gcse 9 1 geography edexcel b gcse religious studies for edexcel see all series key issues revision with results ofsted framework rollercoaster resources

aqa gcse 9 1 geography google books - Aug 09 2022

web jul 4 2016 aqa gcse 9 1 geography john widdowson rebecca blackshaw meryl king hodder education jul 4 2016 science 384 pages

gcse 9 1 geography aqa google books - Jan 14 2023

web jul 16 2020 gcse 9 1 geography aga oup oxford jul 16 2020 juvenile nonfiction now updated for 2020 to more closely reflect the latest aga exam question format and wording a student friendly and

umat massachusetts institute of technology - Feb 09 2023

web user subroutine umat can be used to define the mechanical constitutive behavior of a material will be called at all material calculation points of elements for which the material definition includes a user defined material behavior can be used with any procedure that includes mechanical behavior can use solution dependent state variables

understanding the deformation gradient in abaqus and - $Dec\ 07\ 2022$

web feb 1 2022 firstly we examine the classical forms of global and local deformation gradients we then show that abaqus standard does not use the classical form of the local deformation gradient when continuum elements are used and we highlight the important implications for umat development

abaqus soft tissue umat api publico pinheiro ma gov br - Feb 26 2022

web abaqus soft tissue umat is available in our digital library an online access to it is set as public so you can download it instantly our books collection spans in multiple countries allowing you to get the most less latency time to download any of

our books like this one kindly say the abaqus soft tissue umat is universally compatible with

automatic generation of user material subroutines for pubmed - May 12 2023

web the analysis of the biomechanics of growth and remodeling in soft tissues requires the formulation of specialized pseudoelastic constitutive relations the nonlinear finite element analysis package abaqus allows the user to implement such specialized material responses through the coding of a user material subroutine called umat

abaqus umat pdf stress mechanics viscoelasticity scribd - Nov 06 2022

web abaqus standard passes zero strain increments into user subroutine umat to start the rst increment of all the steps and all increments of steps for which you have suppressed extrapolation see procedures overview section 6 1 1 in this case you can dene only the jacobian ddsdde utility routines

abaqus soft tissue umat uniport edu ng - Mar 30 2022

web may 25 2023 abaqus soft tissue umat 1 9 downloaded from uniport edu ng on may 25 2023 by guest abaqus soft tissue umat this is likewise one of the factors by obtaining the soft documents of this abaqus soft tissue umat by online you might not require more epoch to spend to go to the books establishment as well as search for them abaqus soft tissue umat secure4 khronos - Jan 28 2022

web jun 18 2023 download the abaqus soft tissue umat join that we have the capital for here and check out the link we compensate for abaqus soft tissue umat and multiple books gatherings from fictions to scientific examinationh in any way abaqus soft tissue umat help environment harvard edu - Dec 27 2021

web kindly say the abaqus soft tissue umat is universally compatible with any devices to read phase field methods in materials science and engineering nikolas provatas 2011 07 26 this comprehensive and self contained one stop source discusses phase field methodology in a fundamental way explaining advanced numerical

abagus soft tissue umat old cosmc org - Jan 08 2023

web abaqus soft tissue umat 3 3 viscous materials under all conditions of uniaxial or multiaxial simple or cyclic loadings so that it may be considered nearly universal troubleshooting finite element modeling with abaqus bod books on demand this textbook demonstrates the application of the finite element philosophy to the solution of

how to implement user defined fiber reinforced sciencedirect - Jul 14 2023

web oct 1 2020 this paper provides a detailed description at the level of the biomedical engineer of the implementation of a nonlinear hyperelastic material model using user subroutines in abaqus in casu uanisohyper inv and umat vumat viscoelasticity maxwell model imechanica - Sep 04 2022

web nov 7 2020 abaqus tutorial and assignment 1 collecting phenomena of large elastic deformation sharing abaqus umat and vumat subroutines thermodynamics of nanoscale small systems journal club theme of september 2007 quantum effects in

github - Mar 10 2023

web payload allshortcutsenabled false filetree soft tissues 6 humphrey items name src path soft tissues 6 humphrey src contenttype directory

understanding the deformation gradient in abaqus and - Aug 15 2023

web feb 1 2022 the detailed and rigorous paper on soft tissue umat and uhyper implementation by fehervary et al 2020 acknowledges the importance of the findings of the current paper and refers readers to the current paper for a thorough explanation of the abaqus local form of the deformation gradient

abaqus soft tissue umat pqr uiaf gov co - Jun 01 2022

web declaration as without difficulty as perception of this abaqus soft tissue umat can be taken as competently as picked to act liquid crystal elastomers mark warner 2007 04 05 this text is a primer for liquid crystals polymers rubber and elasticity it is directed at physicists chemists material scientists engineers and applied

abaqus soft tissue umat help environment harvard edu - Jul 02 2022

web abaqus soft tissue umat recognizing the quirk ways to get this book abaqus soft tissue umat is additionally useful you have remained in right site to begin getting this info get the abaqus soft tissue umat associate that we offer here and check out the link you could purchase lead abaqus soft tissue umat or get it as soon as feasible

abaqus soft tissue umat poczta builduk org - Oct 05 2022

web abaqus soft tissue umat 3 3 manufacturing technologies and applications offers comprehensive coverage of the fundamentals and advances in the textile and clothing manufacturing sectors it describes the basics of fibres yarns and fabrics and their end use in the latest developments and applications in the field and addresses

abagus soft tissue umat reports budgetbakers com - Apr 30 2022

web abaqus soft tissue umat 1 hyperelastic modeling and soft tissue growth integrated with the smoothed finite element method sfem multiscale modeling to tackle the complexity of load bearing organ and tissue regulation

github messeli umat soft tissue - Jun 13 2023

web umat soft tisssue my umat studies featuring the mostly trial implementation of 2005blemker work **anisotropic hyperelastic modeling of arterial layers** - Apr 11 2023

web this problem illustrates the use of the anisotropic hyperelastic capabilities in abaqus to model soft biological tissue more specifically the problem shows how these capabilities can be used to model the mechanical response of

cup drawing behavior of high strength steel sheets containing - Aug 03 2022

web jun 15 2010 a phenomenological yield function yld96 which accounts for the anisotropy of yield stress and r values was implemented into abaqus using the user subroutine umat cup drawing of high strength steel sheets was simulated using the

fem code