

PAST EXAM PAPER & MEMO N3

ABOUT THE QUESTION PAPERS:

THANK YOU FOR DOWNLOADING THE PAST EXAM PAPER AND ITS MEMO. WE HOPE IT WILL BE OF HELP TO YOU. SHOULD YOU NEED MORE QUESTION PAPERS AND THEIR MEMOS PLEASE SEND US AN EMAIL TO INFO@EKURHULENITECH.CO.ZA AND WE WILL SEND YOU A FULL DOWNLOAD VERSION OF THESE. HOWEVER PLEASE NOTE THAT THESE ARE SOLD FOR A SMALL AMOUNT OF R300 PER DOWNLOAD PER SUBJECT.

ABOUT REGISTERING WITH OUR COLLEGE

CONSIDER REGISTERING WITH OUR COLLEGE AND WE HAVE THE FOLLOWING TYPES OF LEARNING:

- ✓ ONLINE OR CORRESPONDENCE LEARNING, THIS IS THE MOST PREPARED ONE BY THOUSANDS
- ✓ PART-TIME CLASSES DURING SATURDAYS IF NEAR OUR OFFICES IN KRUGERSDORP
- ✓ FULL-TIME CLASSES IF NEAR OUR CLASSES IN KRUGERSDORP

ABOUT EXTRA TEXTBOOKS

IF LOOKING FOR TEXTBOOKS FOR CERTAIN SUBJECTS I N1-N6 ENGINEERING STUDIES PLEASE SEND US AN EMAIL ON INFO@EKURHULENITECH.CO.ZA

ABOUT VIDEO MATERIAL

WE HAVE VIDEO MATERIAL FOR EXTRA UNDERSTANDING ON CERTAIN ENGINEERING FOR A FEE. REQUEST A QUOTE. SEND US AN EMAIL ON INFO@EKURHULENITECH.CO.ZA

Electrotechnology N3 November 2010 Memorandum

Roman Wölfel



Electrotechnology N3 November 2010 Memorandum:

The Enigmatic Realm of **Electrotechnology N3 November 2010 Memorandum**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Electrotechnology N3 November 2010 Memorandum** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

<https://staging.conocer.cide.edu/book/Resources/Documents/lego%20friends%20instruction%20booklets.pdf>

Table of Contents Electrotechnology N3 November 2010 Memorandum

1. Understanding the eBook Electrotechnology N3 November 2010 Memorandum
 - The Rise of Digital Reading Electrotechnology N3 November 2010 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrotechnology N3 November 2010 Memorandum
 - 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 Electrotechnology N3 November 2010 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrotechnology N3 November 2010 Memorandum
 - Personalized Recommendations
 - Electrotechnology N3 November 2010 Memorandum User Reviews and Ratings

- Electrotechnology N3 November 2010 Memorandum and Bestseller Lists
- 5. Accessing Electrotechnology N3 November 2010 Memorandum Free and Paid eBooks
 - Electrotechnology N3 November 2010 Memorandum Public Domain eBooks
 - Electrotechnology N3 November 2010 Memorandum eBook Subscription Services
 - Electrotechnology N3 November 2010 Memorandum Budget-Friendly Options
- 6. Navigating Electrotechnology N3 November 2010 Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Electrotechnology N3 November 2010 Memorandum Compatibility with Devices
 - Electrotechnology N3 November 2010 Memorandum Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrotechnology N3 November 2010 Memorandum
 - Highlighting and Note-Taking Electrotechnology N3 November 2010 Memorandum
 - Interactive Elements Electrotechnology N3 November 2010 Memorandum
- 8. Staying Engaged with Electrotechnology N3 November 2010 Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrotechnology N3 November 2010 Memorandum
- 9. Balancing eBooks and Physical Books Electrotechnology N3 November 2010 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrotechnology N3 November 2010 Memorandum
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electrotechnology N3 November 2010 Memorandum
 - Setting Reading Goals Electrotechnology N3 November 2010 Memorandum
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electrotechnology N3 November 2010 Memorandum
 - Fact-Checking eBook Content of Electrotechnology N3 November 2010 Memorandum
 - 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

Electrotechnology N3 November 2010 Memorandum Introduction

Electrotechnology N3 November 2010 Memorandum 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. Electrotechnology N3 November 2010 Memorandum Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Electrotechnology N3 November 2010 Memorandum : 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 Electrotechnology N3 November 2010 Memorandum : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Electrotechnology N3 November 2010 Memorandum Offers a diverse range of free eBooks across various genres. Electrotechnology N3 November 2010 Memorandum Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Electrotechnology N3 November 2010 Memorandum Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Electrotechnology N3 November 2010 Memorandum, especially related to Electrotechnology N3 November 2010 Memorandum, 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 Electrotechnology N3 November 2010 Memorandum, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Electrotechnology N3 November 2010 Memorandum books or magazines might include. Look for these in online stores or libraries. Remember that while Electrotechnology N3 November 2010 Memorandum, sharing copyrighted material without permission is not legal. Always ensure youre 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 Electrotechnology N3 November 2010 Memorandum 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 Electrotechnology N3 November 2010 Memorandum 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 Electrotechnology N3 November 2010 Memorandum eBooks, including some popular titles.

FAQs About Electrotechnology N3 November 2010 Memorandum Books

What is a Electrotechnology N3 November 2010 Memorandum 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 Electrotechnology N3 November 2010 Memorandum 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 Electrotechnology N3 November 2010 Memorandum 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 Electrotechnology N3 November 2010 Memorandum 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 Electrotechnology N3 November 2010 Memorandum 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 Electrotechnology N3 November 2010 Memorandum :

lego friends instruction booklets

legal secretary guide of forms

leap practice test grade 4

leather repair for sofa

~~learning angularjs animations~~

led trailer light troubleshooting

lego mindstorms instructions nxt

leapster learning game system instruction manual

leap test administrator manual 2013

learning about billy english edition

lehman diesel service manual

learnkey fill in the blank answers session 2

lehman marine engines manual

learning odyssey english 2 quiz answers

leed bdc reference guide

Electrotechnology N3 November 2010 Memorandum :

heriot watt university reservoir simulation 1library - Oct 27 2022

web 1 show more page download now 518 page full text 1 contents 1 what is a simulation model 1 1 a simple example of a simulation model 1 2 a note on units 2 what is a reservoir simulation model 2 1 the task of reservoir simulation 2 2 what are we trying to do and how complex must our model be 3 field

heriot watt university reservoir simulation part1 pdf - Nov 27 2022

web contents 1 what is a simulation model 1 1 a simple example of a simulation model 1 2 a note on units 2 what is a reservoir simulation model 2 1 the task of reservoir simulation

reservoir simulation heriot watt manual 2005 supplementary - Dec 29 2022

web computational skills regarding reservoir simulation and build own reservoir simulator implementation includes analysis

of advanced reservoir engineering concepts investigation of odes and pdes used in reservoir simulation linear algebra numerical solution techniques the key objective is understanding of commercial

reservoir geophysics edinburgh heriot watt university - Aug 05 2023

web our particular focus is monitoring of producing hydrocarbon reservoirs undergoing primary secondary and tertiary recovery this involves quantitative 4d seismic interpretation together with reservoir simulation and model update

institute of petroleum engineering production technology sciarium - Aug 25 2022

web nov 7 2013 heriot watt institute of petroleum engineering edinburgh 2010 675 p introduction and case studies basic concepts in reservoir engineering reservoir simulation model set up gridding and well modeling the flow equations numerical methods in reservoir simulation permeability upscaling petrophysical input examination and

reservoir simulation heriot watt university course - Jun 03 2023

web know all the types of reservoir simulation models and what type of problem or reservoir process each is used to model know or be able to work out the equations for the mass of a phase or component in a grid block for a black oil or compositional model basic concepts in reservoir engineering

introduction to geological uncertainty management in reservoir - Feb 28 2023

web this book explores methods for managing uncertainty in reservoir characterization and optimization it covers the fundamentals challenges and solutions to tackle the challenges made by geological uncertainty the first chapter discusses types and sources of uncertainty and the challenges in different phases of reservoir management along with

heriot watt reservoir engineering - Sep 25 2022

web msc petroleum engineering heriot watt university dubai heriot watt reservoir engineering downloaded from ams istanbul edu tr by guest adrienne yaretzi international centre for carbonate reservoirs carbonate professor mark bentley heriot watt university reservoir model design professor knut andreas lie sintef

professor ken sorbie cv heriot watt university - Apr 01 2023

web reservoir simulation i have taught this 10 day course on reservoir simulation since 1988 i wrote the original notes and i have presented the course with colleagues at institute of petroleum engineering heriot watt u in edinburgh it has also been presented at many of the approved learning units alus around the world e g in tomsk

pdf heriot watt university reservoir simulation free - Apr 20 2022

web download heriot watt university reservoir simulation free in pdf format account 157 55 39 51 login register search search partner sites youtube to mp3 converter about us this project started as a student project in 2014 and was presented in 2017 every aspect of the internet we believe ought to be free as a consequence this utility

short courses petroleum learning centre - Jan 30 2023

web applied reservoir simulation basic pvt simulation field development and fluid flow mechanics gas wells horizontal wells
htr reserves development logging during well interventions mature field development quick look log analysis reserves
estimation reservoir physics waterflooding management well logging and interpretation well

reservoir simulation 1997 reservoir simulation exam 1997 q - May 22 2022

web 1997 exam with possible solutions reservoir simulation exam 1997 q1 give one use of reservoir simulation calculation
and one use of material balance calculation skip to document ask an expert university heriot watt university course
petroleum engineering 001 13 documents info more info download save r eserv oir

74468323 heriot watt university reservoir simulation - Mar 20 2022

web after briefly discussing the issue of uncertainty in reservoir management some calculated examples are given finally the
various types of reservoir simulation model which are available for calculating different types of reservoir development
process are presented black oil model compositional model etc

technology focus reservoir simulation heriot watt university - Sep 06 2023

web jul 27 2015 the journal of petroleum technology jpt july 2015 issue includes a technology focus feature on reservoir
simulation which discusses four recent papers published by the society of petroleum engineers spe two of the four articles
are based on recent research output from heriot watt s institute of petroleum engineering ipe

msc reservoir evaluation and management heriot watt university - Oct 07 2023

web either in industry or within heriot watt students have the opportunity to undertake an examined research project within
the area of reservoir geoscience and engineering the projects are supervised by members of staff in ipe and can contain any
combination of the subjects studied during the taught course or in the team project

introduction to reservoir simulation spe aberdeen - May 02 2023

web reservoir simulation reservoir simulation background model purposes model contents vs complexity reservoir model
elements outline probability and determinism reservoir model components static model grid rock property modelling dynamic
model major laws used in reservoir simulation numerical techniques in reservoir simulation scale upscale

download well test analysis pdf sciarium - Feb 16 2022

web may 31 2015 heriot watt institute of petroleum engineering edinburgh 2013 668 p reservoir simulation is an area of
reservoir engineering in which computer models are used to predict the flow of fluids typically oil water and gas through
porous media

5 types of reservoir simulation model heriot watt - Jul 24 2022

web 5 types of reservoir simulation model in document heriot watt university reservoir simulation page 47 52 until now we
have confined our discussion to relative simple reservoir recovery processes such as natural depletion blowdown and

waterflooding however there are many more complex reservoir recovery processes

heriot watt university reservoir simulation pdf scribd - Jul 04 2023

web reservoir simulations can do at the appraisal and in the mature stages of reservoir have an elementary knowledge of how uncertainty is handled in reservoir know all the types of reservoir simulation models and what type of problem

download reservoir engineering pdf sciaram - Jun 22 2022

web may 30 2015 manual heriot watt institute of petroleum engineering edinburgh 2013 668 p reservoir simulation is an area of reservoir engineering in which computer models are used to predict the flow of fluids typically oil

principles of microeconomics 7th edition solutions and - Jul 14 2023

web 1 scarcity means human wants for goods and services exceed the available supply supply is limited because resources are limited demand however is virtually unlimited

principles of microeconomics 9th edition solutions - Aug 15 2023

web our resource for principles of microeconomics includes answers to chapter exercises as well as detailed information to walk you through the process step by step with expert

ch 8 key concepts and summary principles of - Apr 30 2022

principles of microeconomics wikibooks - Sep 04 2022

web jan 27 2021 principles of microeconomics provides a concise introduction to microeconomics without sacrificing rigour guiding students learning through

answer key chapter 1 principles of microeconomics 2e - Jun 13 2023

web book title principles of microeconomics 2e publication date sep 15 2017 location houston texas book url openstax org books principles microeconomics

solutions for principles of microeconomics 8th by n - Feb 09 2023

web guided explanations and solutions for mankiw s principles of microeconomics 8th edition

ch 1 review questions principles of microeconomics 2e - Jun 01 2022

midterm exam 1 principles of microeconomics economics mit - Mar 10 2023

web sample solutions for this textbook we offer sample solutions for principles of microeconomics homework problems see examples below chapter 1 problem 1rq

principles of microeconomics open textbook library - Aug 03 2022

web what is the difference between microeconomics and macroeconomics 13 what are examples of individual economic

agents 14 what are the three main goals of

principles of microeconomics 8th edition solutions course hero - Dec 07 2022

web principles of microeconomics textbook covers the breath of microeconomic topics from introduction to the subject to development of the main model of demand and supply

principles of microeconomics 7th edition textbook solutions - Jan 08 2023

web 14 01 principles of microeconomics is an introductory undergraduate course that teaches the fundamentals of microeconomics this course introduces microeconomic concepts

principles of microeconomics mheducation ca - Jul 02 2022

web we call the point where the marginal cost curve crosses the average variable cost curve the shutdown point 8 3 entry and exit decisions in the long run in the long run firms will

answer key chapter 4 principles of microeconomics 2e - May 12 2023

web principles of microeconomics menu more info syllabus calendar instructor insights lecture videos lecture notes handouts assignments exams lecture notes and

lecture notes and handouts principles of microeconomics - Apr 11 2023

web preparation midterm exam 1 covers material from the beginning of the course unit 1 supply and demand unit 2 consumer theory the exam tests your conceptual

principles of microeconomics open textbook library - Oct 05 2022

web about the book principles of microeconomics is an adaptation of the textbook microeconomics markets methods and models by d curtis and i irvine which

principles of microeconomics economics mit opencourseware - Nov 06 2022

web aug 25 2023 microeconomics is a branch of economics that studies the behavior of individuals and firms in making decisions regarding the allocation of scarce resources

rotax max carburetor tuning the colorado karter - Mar 17 2022

web jun 4 2010 presuming that you re running a senior and using a k98 needle a very general guide is that you ll be in the 152 162 range probably a 152 or 155 most summer days but that won t be precise enough to give you maximum performance and you also risk going too lean and sticking the motor

how to the ultimate rotax max 125 tuning guide youtube - Oct 04 2023

web oct 12 2019 this week giving you the ultimate guide to tuning your rotax max 125 go kart engine subscribe to us here youtube com c powerrepubliccheck us ou

max engines rotax racing - Jul 21 2022

web since then rotax max engines have consistently set the benchmark in performance parity reliability low cost of ownership durability and ease of use rotax max engines have won their drivers more kart racing titles than any other engine in the sport and they continue to lead the all time list of championship titles

how to video rotax max tuning kartsportnews - Jul 01 2023

web oct 16 2019 how to video rotax max tuning wednesday 16th october 2019 by ksn admin here s another tech how to video by derek jones at power republic carby tuning on the rotax max covering things like jetting float heights and needle positions

rotax engine tuner apps on google play - Aug 22 2022

web aug 7 2013 rotax engine tuner allows you to calibrate your rotax max engine in an optimal way according to the environmental conditions temperature pressure and humidity location can be obtained

rotax engines black racing engines - Sep 22 2022

web rotax engines max complete engine service we first assess rotax engines performance with an initial round of dyno testing next the engine will undergo disassembly cleaning and inspection to determine which components need to be replaced adjusted or rebuilt

jet tech max fine tuning part 1 youtube - May 19 2022

web jet tech max fine tuning part 1 jettechmotorsport 650 subscribers subscribe like share save 23k views 15 years ago from rotaxjetting com fine tuning the jet tech max software dynamic

uranus software rotax jetting theory - Nov 24 2022

web the following two combinations of inserts low speed jets and floats are allowed combination 1 using 12 5 insert old combination floats marked 5 2 gram with low speed jet 30 and insert b30 combination 2 using 8 5 insert new engines floats marked 3 6 gram with low speed jet 60 and insert b60 you can find more technical

rotax technical documents j3 competition - Oct 24 2022

web rotax technical documents notice all regulations are downloadable via pdf file transfer we recommend following all racerotax and j3competition outlets to stay up to date on all the latest rotax racing news as well as any technical and sporting updates

basic rotax max tuning tips pdf carburetor jet engine - Mar 29 2023

web basic rotax max tuning tips by nick weil with speedquest rotaxians rejoice pen has been put to paper and the first of hopefully many tech tips articles has been bestowed upon the world of the fr125 the following is a compilation of many hours of testing months of scouring the internet for scraps of information and a ton of input

force motorsport kart race engine preparation service rental - Apr 29 2023

web force motorsport is an approved by j a g rotax to service tune prepare and dyno test rotax max rotax junior rotax mini max rotax micro max kart race engines

uk karting tech talk preparation jetting of the rotax max - Sep 03 2023

web the pv in the rotax max effectively operates in 2 positions closed and open when the pv is closed the engine produces good low speed torque power curves that drop off rapidly just above 7500rpm when the pv is open the engine produces good high speed torque power curves that drop off rapidly just below 7500rpm

rotax max evo general information how to 10 10 youtube - May 31 2023

web dec 30 2018 10 3k subscribers subscribe 520 share 47k views 4 years ago in the last video of this series we are going to tell you some general things leave your thoughts in the comments below we love to hear

how to the ultimate go kart engine tuning tool youtube - Jan 27 2023

web apr 24 2021 in this week s video we re showing you the ultimate go kart tuning tool the mychron 5 lambda sensor become a member of our channel youtube co

uranus software kartmax app - Feb 13 2022

web kartmax jetting software is a tool designed for use with the rotax max fr125 sr kart engine the purpose of this tool is to recommend a jet needle position and spark reference taking in consideration the weather conditions on the racetrack with this utility engine tuning headaches ended

rotax racing - Apr 17 2022

web the highlights of the rmcgf in portugal 2022 125 max dd2 the spirit of our ultimate class the power of silence rotax project e20 jump into the world of rotax start your kart racing experience no matter if you are a professional racer or just want to have fun

rotax max wikipedia - Dec 26 2022

web the rotax max 125 engine is a two stroke 125 cc 7 6 cu in engine designed by rotax part of bombardier recreational products brp to provide cost effective but high speed kart racing built in austria the engine is liquid cooled equipped with a balance shaft integrated water pump electric starter and centrifugal clutch

tuning info fox son karting - Aug 02 2023

web pre mix oil rotax xps maintenance interval top end at 15 20 hours bottom end at 25 40 hours classes micro age 7 11 restricted carb slide 18mm restricted exhaust header mini age 10 13 20mm restricted exhaust header junior age 12 15 senior age 14 senior cylinder with power valve baseline engine setup micro max evo my20

rotax max evo fox son karting - Feb 25 2023

web rotax max evo from 2 495 00 fox son is hands down the top rotax builder in north america fox built rotaxes dominate

every category and send drivers to the rotax world championships every year

rotax max tuning cyberlab sutd edu sg - Jun 19 2022

web relay tuning of pid controllers sep 23 2023 this book presents comprehensive information on the relay auto tuning method for unstable systems in process control industries and introduces a new refined ziegler nichols method for designing controllers for unstable systems the relay auto tuning method is intended to assist