

Second Edition

# Applied Numerical Methods Using MATLAB®

Won Y. Yang | Wenwu Cao | Jaekwon Kim  
Kyung W. Park | Ho-Hyun Park | Jingon Joung  
Jong-Suk Ro | Han L. Lee | Cheol-Ho Hong | Taeho Im

WILEY

# Applied Numerical Methods Using Matlab

**Robert Joseph Schilling, Sandra L.  
Harris**



## **Applied Numerical Methods Using Matlab:**

Applied Numerical Methods Using MATLAB Won Y. Yang, Wenwu Cao, Jaekwon Kim, Kyung W. Park, Ho-Hyun Park, Jingon Joung, Jong-Suk Ro, Han L. Lee, Cheol-Ho Hong, Taeho Im, 2020-05-12 This new edition provides an updated approach for students engineers and researchers to apply numerical methods for solving problems using MATLAB This accessible book makes use of MATLAB software to teach the fundamental concepts for applying numerical methods to solve practical engineering and or science problems It presents programs in a complete form so that readers can run them instantly with no programming skill allowing them to focus on understanding the mathematical manipulation process and making interpretations of the results Applied Numerical Methods Using MATLAB Second Edition begins with an introduction to MATLAB usage and computational errors covering everything from input output of data to various kinds of computing errors and on to parameter sharing and passing and more The system of linear equations is covered next followed by a chapter on the interpolation by Lagrange polynomial The next sections look at interpolation and curve fitting nonlinear equations numerical differentiation integration ordinary differential equations and optimization Numerous methods such as the Simpson Euler Heun Runge kutta Golden Search Nelder Mead and more are all covered in those chapters The eighth chapter provides readers with matrices and Eigenvalues and Eigenvectors The book finishes with a complete overview of differential equations Provides examples and problems of solving electronic circuits and neural networks Includes new sections on adaptive filters recursive least squares estimation Bairstow s method for a polynomial equation and more Explains Mixed Integer Linear Programming MILP and DOA Direction of Arrival estimation with eigenvectors Aimed at students who do not like and or do not have time to derive and prove mathematical results Applied Numerical Methods Using MATLAB Second Edition is an excellent text for students who wish to develop their problem solving capability without being involved in details about the MATLAB codes It will also be useful to those who want to delve deeper into understanding underlying algorithms and equations

**Applied Numerical Methods** Rao V. Dukkipati, 2011 Applied Numerical Methods Using MATLAB Won Y. Yang, Wenwu Cao, Tae-Sang Chung, John Morris, 2005-05-20 In recent years with the introduction of new media products there has been a shift in the use of programming languages from FORTRAN or C to MATLAB for implementing numerical methods This book makes use of the powerful MATLAB software to avoid complex derivations and to teach the fundamental concepts using the software to solve practical problems Over the years many textbooks have been written on the subject of numerical methods Based on their course experience the authors use a more practical approach and link every method to real engineering and or science problems The main benefit is that engineers don t have to know the mathematical theory in order to apply the numerical methods for solving their real life problems An Instructor s Manual presenting detailed solutions to all the problems in the book is available online

**Applied Numerical Methods Using MATLAB** Wön-yŏng Yang, 2005 In recent years with the introduction of new media products there has been a shift in the use of programming

languages from FORTRAN or C to MATLAB for implementing numerical methods This book makes use of the powerful MATLAB software to avoid complex derivations and to teach the fundamental concepts using the software to solve practical problems Over the years many textbooks have been written on the subject of numerical methods Based on their course experience the authors use a more practical approach and link every method to real engineering and or science problems The main benefit is that engineers don t have to know the mathematical theory in order to apply the numerical methods for solving their real life problems

*EBOOK: Applied Numerical Methods with MATLAB for Engineers and Scientists* Steven Chapra,2011-05-16 Steven Chapra s Applied Numerical Methods with MATLAB third edition is written for engineering and science students who need to learn numerical problem solving Theory is introduced to inform key concepts which are framed in applications and demonstrated using MATLAB The book is designed for a one semester or one quarter course in numerical methods typically taken by undergraduates The third edition features new chapters on Eigenvalues and Fourier Analysis and is accompanied by an extensive set of m files and instructor materials

*Numerical Methods with MATLAB* Gerald W. Recktenwald,2000 Designed to give undergraduate engineering students a practical and rigorous introduction to the fundamentals of numerical computation This book is a thoroughly modern exposition of classic numerical methods using MATLAB The fundamental theory of each method is briefly developed Rather than providing a detailed numerical analysis the behavior of the methods is exposed by carefully designed numerical experiments The methods are then exercised on several nontrivial example problems from engineering practice The material in each chapter is organized as a progression from the simple to the complex This leads the student to an understanding of the sophisticated numerical methods that are part of MATLAB An integral part of the book is the Numerical Methods with MATLAB NMM Toolbox which provides 150 programs and over forty data sets The NMM Toolbox is a library of numerical techniques implemented in structured and clearly written code

**Loose Leaf for Applied Numerical Methods with MATLAB for Engineers and Scientists** Steven C. Chapra, Dr.,2017-02-13 Applied Numerical Methods with MATLAB is written for students who want to learn and apply numerical methods in order to solve problems in engineering and science As such the methods are motivated by problems rather than by mathematics That said sufficient theory is provided so that students come away with insight into the techniques and their shortcomings McGraw Hill s Connect is also available as an optional add on item Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need when they need it how they need it so that class time is more effective Connect allows the professor to assign homework quizzes and tests easily and automatically grades and records the scores of the student s work Problems are randomized to prevent sharing of answers an may also have a multi step solution which helps move the students learning along if they experience difficulty

*Numerical Methods using MATLAB* Abhishek Gupta,2015-01-05 Numerical Methods with MATLAB provides a highly practical reference work to assist anyone working with numerical methods A wide range of techniques are introduced their merits discussed and

fully working MATLAB code samples supplied to demonstrate how they can be coded and applied Numerical methods have wide applicability across many scientific mathematical and engineering disciplines and are most often employed in situations where working out an exact answer to the problem by another method is impractical Numerical Methods with MATLAB presents each topic in a concise and readable format to help you learn fast and effectively It is not intended to be a reference work to the conceptual theory that underpins the numerical methods themselves A wide range of reference works are readily available to supply this information If however you want assistance in applying numerical methods then this is the book for you

**Applied numerical methods using matlab**, 2008 **Applied Numerical Methods with MATLAB for Engineers and Scientists** Steven C. Chapra, 2008 Still brief but with the chapters that you wanted Steven Chapra's new second edition is written for engineering and science students who need to learn numerical problem solving This text focuses on problem solving applications rather than theory using MATLAB throughout Theory is introduced to inform key concepts which are framed in applications and demonstrated using MATLAB The new second edition feature new chapters on Numerical Differentiation Optimization and Boundary Value Problems ODEs Applied Numerical Analysis Using MATLAB Fausett, 2009-09 *Applied Numerical Methods with Matlab Fo* CHAPRA, 2016-04-16 **APPLIED NUMERICAL METHODS WITH MATLAB FOR ENGINEERS AND SCIENTISTS** STEVEN. CHAPRA, 2017 **Applied Numerical Methods with MATLAB for Engineers and Scientists** Steven C. Chapra, 2017 ISE Applied Numerical Methods with MATLAB for Engineers and Scientists Steven Chapra, **Applied Numerical Methods for Engineers Using MATLAB and C** Robert Joseph Schilling, Sandra L. Harris, 2000 This book provides a comprehensive discussion of numerical computing techniques with an emphasis on practical applications in the fields of civil chemical electrical and mechanical engineering It features two software libraries that implement the algorithms developed in the text a MATLAB toolbox and an ANSI C library This book is intended for undergraduate students Each chapter includes detailed case study examples from the four engineering fields with complete solutions provided in MATLAB and C detailed objectives numerous worked out examples and illustrations and summaries comparing the numerical techniques Chapter problems are divided into separate analysis and computation sections Documentation for the software is provided in text appendixes that also include a helpful review of vectors and matrices The Instructor's Manual includes a disk with software documentation and complete solutions to both problems and examples in the book **Applied Numerical Analysis Using MATLAB** Laurene V. Fausett, 1999 Each chapter uses introductory problems from specific applications These easy to understand problems clarify for the reader the need for a particular mathematical technique Numerical techniques are explained with an emphasis on why they work FEATURES Discussion of the contexts and reasons for selection of each problem and solution method Worked out examples are very realistic and not contrived MATLAB code provides an easy test bed for algorithmic ideas **Applied Numerical Methods W/MATLAB** Steven C. Chapra, Dr., 2011-01-27 Steven Chapra's Applied Numerical Methods with MATLAB third

edition is written for engineering and science students who need to learn numerical problem solving Theory is introduced to inform key concepts which are framed in applications and demonstrated using MATLAB The book is designed for a one semester or one quarter course in numerical methods typically taken by undergraduates The third edition features new chapters on Eigenvalues and Fourier Analysis and is accompanied by an extensive set of m files and instructor materials

Applied Numerical Methods W/MATLAB. Steven Chapra,2011 Steven Chapra s Applied Numerical Methods with MATLAB third edition is written for engineering and science students who need to learn numerical problem solving Theory is introduced to inform key concepts which are framed in applications and demonstrated using MATLAB The book is designed for a one semester or one quarter course in numerical methods typically taken by undergraduates The third edition features new chapters on Eigenvalues and Fourier Analysis and is accompanied by an extensive set of m files and instructor materials

*Numerical Methods* George Lindfield,John Penny,2018-10-10 The fourth edition of Numerical Methods Using MATLAB provides a clear and rigorous introduction to a wide range of numerical methods that have practical applications The authors approach is to integrate MATLAB with numerical analysis in a way which adds clarity to the numerical analysis and develops familiarity with MATLAB MATLAB graphics and numerical output are used extensively to clarify complex problems and give a deeper understanding of their nature The text provides an extensive reference providing numerous useful and important numerical algorithms that are implemented in MATLAB to help researchers analyze a particular outcome By using MATLAB it is possible for the readers to tackle some large and difficult problems and deepen and consolidate their understanding of problem solving using numerical methods Many worked examples are given together with exercises and solutions to illustrate how numerical methods can be used to study problems that have applications in the biosciences chaos optimization and many other fields The text will be a valuable aid to people working in a wide range of fields such as engineering science and economics Features many numerical algorithms their fundamental principles and applications Includes new sections introducing Simulink Kalman Filter Discrete Transforms and Wavelet Analysis Contains some new problems and examples Is user friendly and is written in a conversational and approachable style Contains over 60 algorithms implemented as MATLAB functions and over 100 MATLAB scripts applying numerical algorithms to specific examples

Immerse yourself in the artistry of words with is expressive creation, Discover the Artistry of **Applied Numerical Methods Using Matlab** . This ebook, presented in a PDF format ( PDF Size: \*), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

<https://enterpriseenrollment.cruiselady.com/About/browse/default.aspx/Artists%20And%20Traditions%20Uses%20Of%20The%20Past%20In%20Chinese%20Culture.pdf>

## **Table of Contents Applied Numerical Methods Using Matlab**

1. Understanding the eBook Applied Numerical Methods Using Matlab
  - The Rise of Digital Reading Applied Numerical Methods Using Matlab
  - Advantages of eBooks Over Traditional Books
2. Identifying Applied Numerical Methods Using Matlab
  - 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 Applied Numerical Methods Using Matlab
  - User-Friendly Interface
4. Exploring eBook Recommendations from Applied Numerical Methods Using Matlab
  - Personalized Recommendations
  - Applied Numerical Methods Using Matlab User Reviews and Ratings
  - Applied Numerical Methods Using Matlab and Bestseller Lists
5. Accessing Applied Numerical Methods Using Matlab Free and Paid eBooks
  - Applied Numerical Methods Using Matlab Public Domain eBooks
  - Applied Numerical Methods Using Matlab eBook Subscription Services

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

### **Applied Numerical Methods Using Matlab Introduction**

In the digital age, access to information has become easier than ever before. The ability to download Applied Numerical Methods Using Matlab has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Applied Numerical Methods Using Matlab has opened up a world of possibilities. Downloading Applied Numerical Methods Using Matlab provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Applied Numerical Methods Using Matlab has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Applied Numerical Methods Using Matlab. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Applied Numerical Methods Using Matlab. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Applied Numerical Methods Using Matlab, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Applied Numerical Methods Using Matlab has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical

downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

### **FAQs About Applied Numerical Methods Using Matlab Books**

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer webbased readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Applied Numerical Methods Using Matlab is one of the best book in our library for free trial. We provide copy of Applied Numerical Methods Using Matlab in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Applied Numerical Methods Using Matlab. Where to download Applied Numerical Methods Using Matlab online for free? Are you looking for Applied Numerical Methods Using Matlab PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another Applied Numerical Methods Using Matlab. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of Applied Numerical Methods Using Matlab are for sale to free while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with Applied Numerical Methods Using Matlab. So depending on what exactly you are searching, you will be able to

choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with Applied Numerical Methods Using Matlab To get started finding Applied Numerical Methods Using Matlab, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with Applied Numerical Methods Using Matlab So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Applied Numerical Methods Using Matlab. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Applied Numerical Methods Using Matlab, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. Applied Numerical Methods Using Matlab is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, Applied Numerical Methods Using Matlab is universally compatible with any devices to read.

### **Find Applied Numerical Methods Using Matlab :**

**artists and traditions uses of the past in chinese culture**

ascent of life a philosophical study of the theory of evolution.

ashtanga yoga a flowmotion

**arthurs new power**

**ashes of victory an honor harrington novel**

*as wide as the river*

**asian american novelists a bio-bibliographical critical sourcebook**

arthur shawcross the genesee river killer

**asce annual combined index 1991**

**arthurs holiday fun**

*articles interviews and excerpts 1976-2000 on richard nixons legacy hc 2003*

**arthur the king**

as i remember uncle john a historical biography of an american midwest portrait painter

**artificial intelligence in psychology interdisciplinary essays**

asheville places of discovery

## Applied Numerical Methods Using Matlab :

Distribution System Modeling And Analysis Solution Manual Distribution System Modeling And Analysis Solution Manual. Distribution System Modeling and Analysis 3rd Kersting ... Distribution System Modeling and Analysis 3rd Kersting Solution Manual - Free download as PDF File (.pdf), Text File (.txt) or view presentation slides ... Solutions Manual for Distribution System Modeling and ... Solutions Manual for Distribution System Modeling and Analysis, Second Edition Electric Power Engineering. Authors, Kersting William H Staff, William H ... Solutions Manual For Distribution System Modeling And ... It's great application book who involve in design and modelling of Distribution network. This can use as the Guide book in Distribution Systems. Solutions Manual for Distribution System Modeling and ... Full Title: Solutions Manual for Distribution System Modeling and Analysis, Second Edition ; Edition: 1st edition ; ISBN-13: 978-1420043570 ; Publisher: CRC Press ... Distribution System Modeling and Analysis 3rd Kersting ... Distribution System Modeling and Analysis 3rd Kersting Solution Manual - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Solutions Manual for Distribution System Modeling and ... Solutions Manual for Distribution System Modeling and Analysis by William H. Kersting, Vijay Kumar Juneja. (Paperback 9780849303944) Solutions Manual for Distribution System Modeling and ... Buy a copy of Solutions Manual for Distribution System Modeling and Analysis book by Steven Strauss. ISBN 1420043579 - Solutions Manual for Distribution ... Solutions Manual for Distribution System Modeling and Analysis, Second Edition (Electric Power Engineering). Author(s) Kersting William H Staff. ISBN ... Kersting Distribution System Modeling and Analysis Third ... Approximate Method of Analysis 57 Solution The area to be served is shown in Figure 3.15. ... Manual to build a system called "System 1" in Windmil that will ... Official CPC ® Certification Study Guide The CPC® Certification Study Guide covers all content sections you'll encounter on the CPC exam, in addition to providing you with helpful testing tips. Aapc Cpc Study Guide Anatomy & Physiology Made Easy: An Illustrated Study Guide for Students To Easily Learn Anatomy and Physiology ... CPC EXAM STUDY GUIDE + MEDICAL CODING & BILLING ... Official AAPC CPC® Certification Study Guide (2023) The CPC® Certification Study Guide covers all content sections you'll encounter on the CPC exam, in addition to providing you with helpful testing tips. CERTIFIED PROFESSIONAL CODER by AAPC The CPC Certification Study Guide covers all content sections you'll encounter on the CPC exam, in addition to providing you with helpful testing tips. This ... How Do I Study for the CPC Exam? Official CPC Certification Study Guide: This study guide reviews each section of the CPC exam in detail and provides practical examples/sample questions ... Medical Coding and Billing Study Guide AAPC study guides — available for all AAPC certifications — are organized to help you understand and practice the concepts, elements, and rules governing ... CPC Exam Preparation 2023 and 2024 - Medical Coding ... Sep 12, 2023 — The exam is extremely challenging, and thorough test preparation is essential for success. Our study guide includes: Mometrix Test Preparation ... List of books by author

AAPC Looking for books by AAPC? See all books authored by AAPC, including Official CPC Certification 2018 - Study Guide, and 2021 HCPCS Level II Expert: ... AAPC Official CPC Certification Study Guide Notes Notes, definitions and questions from AAPC CPC Study Guide Medical Coding Prep Learn with flashcards, games, and more — for free. CPC Exam Survival Guide - What you NEED to know BEFORE ... Note-taking Worksheet Solutions Flashcards Study with Quizlet and memorize flashcards containing terms like. - a mixture that appears the same throughout and is mixed at the molecular level, Active Study: Note-Taking Worksheet Though you may not be able to answer all of the questions, this method encourages you to think about all aspects of a specific topic. Who. What. When. Where. Solutions Research Note-taking Worksheet Solutions Research Note-taking Worksheet. NAME ... Use the table to write down notes from your research on stormwater solutions: Solution & Description. 5.6 Note-Taking - Student Success Actively listening and note-taking are key strategies to ensure your student success. ... See your instructor during office hours to review your key findings and ... Note-Taking Pt. 2: My Solution Feb 19, 2018 — You can do this no matter which program you use. Arranging by subject solves the issue of having a million documents in a folder. It also keeps ... NOTE TAKING 101 • Listen for main ideas, key terms, or answers to your questions. • Listen and watch for cues to important information. • Visit office hours to speak with the ... Notetaking Solutions - Cork NoteTaking Solutions provides an Electronic Notetaking & Real Time Communication Service for students/adults with disabilities in Education and Business. The 6 best note taking apps in 2024 Microsoft OneNote for a free note-taking app. Apple Notes for Apple users. Google Keep for Google power users. Notion for collaboration. NTS Overview - Video Transcript The Electronic NoteTaker transcribes the student's answers using two laptops enabling the student to view the exam transcript at Real Time as it is being typed.