

# Friedberg Linear Algebra

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## FRIEDBERG LINEAR ALGEBRA BOOK EVALUATION

Invite to our literary world! Right here at our magazine, we know the power of a good **Friedberg Linear Algebra review**. It can lead you to your next favorite novel, expand your perspectives with a non-fiction masterpiece, and help you discover new writers. That's why we're thrilled to take you on a trip to check out the remarkable globe of **Friedberg Linear Algebra book assesses**.

## DISCOVER NEW BOOKS

As ravenous viewers, all of us understand the feeling of finishing a publication and questioning what to check out next. This is where Friedberg Linear Algebra can be found in handy. By reviewing reviews, we can discover our following preferred unique or non-fiction masterpiece.

## INCREASING YOUR HORIZONS

Maybe you have actually never ever check out a sci-fi novel in the past, or you wonder about the most up to date self-help publication. Friedberg Linear Algebra can aid you check out new styles and subjects, increasing your reading horizons.

When searching for reliable review resources, consider relied on publication blogs, book evaluation web sites, and literary magazines. Do not hesitate to check out reviews from several sources to obtain a well-shaped understanding of a publication.

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When picking a new publication to review, it is very important to choose one that straightens with your passions. Checking out reviews can aid you figure out if a Friedberg Linear Algebra book is right for you. Seek evaluations that review the story, creating design, and total tone of guide.

And keep in mind, reading is subjective. Just because a book has beautiful evaluations doesn't indicate you will like it, and the other way around. Use evaluates as a guide, however eventually trust your very own reactions when picking your following read.

## THE SIGNIFICANCE OF FRIEDBERG LINEAR ALGEBRA EVALUATIONS

When it involves the globe of publications, there's no denying the relevance of evaluations. In fact, evaluations can make or break a book's success. As viewers, we rely upon testimonials to assist us decide whether to spend our time and money in a brand-new book. As writers, reviews give useful feedback and can help improve publication sales.

Evaluations additionally play a substantial duty in shaping the literary globe. They can influence viewers opinions and even impact the general assumption of Friedberg Linear Algebra publication or author. Positive reviews can produce buzz and draw in brand-new viewers, while unfavorable reviews can discourage prospective viewers and harm a book's reputation.

Therefore, it's necessary to share your truthful viewpoints via Friedberg Linear Algebra reviews. Your comments can aid various other visitors discover their next preferred publication and support authors in their literary trip. So, the next time you complete a publication, take a few minutes to create a review and make your voice heard on the planet of literary works!

## FICTION FRIEDBERG LINEAR ALGEBRA REVIEWS

When it comes to book testimonials, fiction books are typically one of the most commonly reviewed and evaluated. From romance and enigma to sci-fi and dream, there are many genres to pick from. Whether you're a fan of heartfelt love stories, thrilling murder enigmas, or mind-bending sci-fi journeys, there's always Friedberg Linear Algebra book waiting to astound you.

Linear Algebra Courier Corporation

Linear Algebra 4th ed., by Friedberg, Insel, and Spence is one of the world's best textbooks on the subject of finite-dimensional linear analysis. This book offers 266 solutions to problems from chapters 1-7. Specifically, there are 27 solutions to problems in chapter 1; 64 solutions to problems in chapter 2; 17 solutions to problems in chapter 3; 16 solutions to problems in chapter 4; 44 solutions to problems in chapter 5; 50 solutions to problems in chapter 6; and 8 solutions to problems in chapter 7.

Linear Algebra: Theory, Intuition, Code Pearson Higher Ed

Linear algebra is perhaps the most important branch of mathematics for computational sciences, including machine learning, AI, data science, statistics, simulations, computer graphics, multivariate analyses, matrix decompositions, signal processing, and so on. The way linear algebra is presented in traditional textbooks is different from how professionals use linear algebra in computers to solve real-world applications in machine learning, data science, statistics, and signal processing. For example, the "determinant" of a matrix is important for linear algebra theory, but should you actually use the determinant in practical applications? The answer may surprise you! If you are interested in learning the mathematical concepts linear algebra and matrix analysis, but also want to apply those concepts to data analyses on computers (e.g., statistics or signal processing), then this book is for you. You'll see all the math concepts implemented in MATLAB and in Python. Unique aspects of this book: - Clear and comprehensible explanations of concepts and theories in linear algebra. - Several distinct explanations of the same ideas, which is a proven technique for learning. -

Visualization using graphs, which strengthens the geometric intuition of linear algebra. - Implementations in MATLAB and Python. Com'on, in the real world, you never solve math problems by hand! You need to know how to implement math in software! - Beginner to intermediate topics, including vectors, matrix multiplications, least-squares projections, eigendecomposition, and singular-value decomposition. - Strong focus on modern applications-oriented aspects of linear algebra and matrix analysis. - Intuitive visual explanations of diagonalization, eigenvalues and eigenvectors, and singular value decomposition. - Codes (MATLAB and Python) are provided to help you understand and apply linear algebra concepts on computers. - A combination of hand-solved exercises and more advanced code challenges. Math is not a spectator sport!

Elementary Linear Algebra American Mathematical Soc.

This elementary presentation exposes readers to both the process of rigor and the rewards inherent in taking an axiomatic approach to the study of functions of a real variable. The aim is to challenge and improve mathematical intuition rather than to verify it. The philosophy of this book is to focus attention on questions which give analysis its inherent fascination. Each chapter begins with the discussion of some motivating examples and concludes with a series of questions.

An Elementary Textbook for Students of Mathematics, Engineering, and the Sciences Courier Corporation

A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

Linear Algebra John Wiley & Sons

Praise for the First Edition ". . . recommended for the teacher and researcher as well as for graduate students. In fact, [it] has a place on every mathematician's bookshelf." -American Mathematical Monthly  
 Linear Algebra and Its Applications, Second Edition presents linear algebra as the theory and practice of linear spaces and linear maps with a unique focus on the analytical aspects as well as the numerous applications of the subject. In addition to thorough coverage of linear equations, matrices, vector spaces, game theory, and numerical analysis, the Second Edition features student-friendly additions that enhance the book's accessibility, including expanded topical coverage in the early chapters, additional exercises, and solutions to selected problems. Beginning chapters are devoted to the abstract structure of finite-dimensional vector spaces, and subsequent chapters address convexity and the duality theorem as well as describe the basics of normed linear spaces and linear maps between normed spaces. Further updates and revisions have been included to reflect the most up-to-date coverage of the topic, including: The QR algorithm for finding the eigenvalues of a self-adjoint matrix The Householder algorithm for turning self-adjoint matrices into tridiagonal form The compactness of the unit ball as a criterion of finite-dimensionality of a normed linear space Additionally, eight new appendices have been added and cover topics such as: the Fast Fourier Transform; the spectral radius theorem; the Lorentz group; the compactness criterion for finite-dimensionality; the characterization of compact operators; proof of Liapunov's stability criterion; the construction of the Jordan Canonical form of matrices; and Carl Pearcy's elegant proof of Halmos' conjecture about the numerical range of matrices. Clear, concise, and superbly organized, Linear

Algebra and Its Applications, Second Edition serves as an excellent text for advanced undergraduate- and graduate-level courses in linear algebra. Its comprehensive treatment of the subject also makes it an ideal reference or self-study for industry professionals.

Linear Algebra 4Th Ed. McGraw Hill Professional

NOTE: Before purchasing, check with your instructor to ensure you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, and registrations are not transferable. To register for and use Pearson's MyLab & Mastering products, you may also need a Course ID, which your instructor will provide. Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies other than Pearson, the access codes for Pearson's MyLab & Mastering products may not be included, may be incorrect, or may be previously redeemed. Check with the seller before completing your purchase. Note: You are purchasing a standalone product; MyMathLab does not come packaged with this content. MyMathLab is not a self-paced technology and should only be purchased when required by an instructor. If you would like to purchase "both" the physical text and MyMathLab, search for: 9780134022697 / 0134022696 Linear Algebra and Its Applications plus New MyMathLab with Pearson eText -- Access Card Package, 5/e With traditional linear algebra texts, the course is relatively easy for students during the early stages as material is presented in a familiar, concrete setting. However, when abstract concepts are introduced, students often hit a wall. Instructors seem to agree that certain concepts (such as linear independence, spanning, subspace, vector space, and linear transformations) are not easily understood and require time to assimilate. These concepts are fundamental to the study of linear algebra, so students' understanding of them is vital to mastering the subject. This text makes these concepts more accessible by introducing them early in a familiar, concrete "Rn" setting, developing them gradually, and returning to them throughout the text so that when they are discussed in the abstract, students are readily able to understand.

### THE POWER OF STORYTELLING

At the heart of every good fiction Friedberg Linear Algebra book is a compelling story. As viewers, we're drawn to characters who deal with obstacles, get over barriers, and inevitably, arise successful. We become purchased their lives and on the planet produced by the author. The very best fiction publications carry us to different times and places, and make us feel a variety of feelings, from love and happiness to sadness and anxiety.

### THE VALUE OF FICTION EVALUATIONS OF FRIEDBERG LINEAR ALGEBRA

Testimonials play an essential function in the world of fiction publications. They assist visitors decide which Friedberg Linear Algebra publications to review next and provide useful comments to authors. In addition, evaluations can influence publication sales and influence the success of both developed and upcoming authors. By sharing your thoughts and point of views in a testimonial, you can aid other viewers uncover their following favorite publication and add to the literary community.

### CREATING A FICTION EVALUATION OF FRIEDBERG LINEAR ALGEBRA

When composing a fiction book evaluation, it is very important to take into consideration the total structure of your evaluation. Beginning with a brief summary of the plot and personalities, after that look into your thoughts and opinions. Be sure to concentrate on details elements of guide that attracted attention to you, such as the creating style, personality growth, or plot twists. And don't hesitate to share your personal connection to the Friedberg Linear Algebra book and just how it made you really feel.

Keep in mind, your opinion issues on the planet of fiction publications. By sharing your thoughts via an evaluation, you can aid various other viewers uncover the magic of narration and get in touch with the remarkable literary neighborhood that exists worldwide.

### NON-FICTION REVIEWS

Non-fiction literary works provides a wide range of knowledge and information on numerous subjects. From bios to background, scientific research to politics, non-fiction publications can broaden your perspective and expand your understanding of the globe around you.

Friedberg Linear Algebra Book reviews are especially important when it involves non-fiction literary works. They can provide valuable understandings right into the accuracy, reliability, and total quality of the info offered in a publication. Testimonials can additionally assist you figure out if a publication is ideal for you and if it straightens with your rate of interests and viewpoints.

When reviewing non-fiction reviews, make sure to take into consideration the customer's credentials and know-how on the subject matter. Look for reviews that provide details instances and evidence to sustain their claims. It's also a good idea to check out evaluations from several sources to get a well-shaped understanding of a book.

### THE POWER OF NON-FICTION REVIEWS

Non-fiction testimonials can have a considerable influence on both the author and the visitor. Favorable evaluations can raise a book's exposure and reputation, resulting in greater sales and a wider audience. Unfavorable testimonials, on the other hand, can offer useful criticism for the author to boost their writing and research study.

As a viewers, your testimonials can additionally make a difference. Your responses can aid various other readers choose whether or not to check out Friedberg Linear Algebra, and it can likewise give useful understandings for the writer to take into consideration in future works.

So, whether you're a history enthusiast or a self-help lover, non-fiction reviews can aid you uncover new publications and expand your knowledge. Accept the power of book testimonials and let them guide you on your literary journey.

### WRITING FRIEDBERG LINEAR ALGEBRA BOOK REVIEW

If you're a book lover, chances are you have actually created a book review before. Nevertheless,

composing a book review that is helpful and interesting can be an overwhelming task. Right here are some suggestions to assist you craft a well-written evaluation:

#### STRUCTURE YOUR EVALUATION

Start with a brief intro that consists of the writer's name, the title of the book, and the category. After that, offer a recap of the story without distributing any kind of spoilers. In the main body of your evaluation, talk about the strengths and weaknesses of Friedberg Linear Algebra. Lastly, end with your general opinion and suggestion.

#### EXPRESS YOUR IDEAS AND POINT OF VIEWS

Do not be afraid to share your ideas and opinions. Let your visitors understand what you suched as and really did not like concerning the book. Specify and provide instances to support your opinions. This adds reputation to your Friedberg Linear Algebra evaluation and helps readers comprehend your point of view.

#### STAY CLEAR OF FRIEDBERG LINEAR ALGEBRA SPOILERS

Among one of the most essential regulations of creating a publication evaluation is to stay clear of spoilers. Do not give away significant story factors or the closing of the book. It is necessary to allow readers uncover the story for themselves.

#### BE HONEST AND POSITIVE

As a customer, your task is to supply truthful responses to the writer and potential viewers. Be constructive in your criticism and supply ideas for improvement. Bear in mind to be considerate and prevent individual attacks.

By adhering to these ideas, you'll be well on your way to creating reliable Friedberg Linear Algebra book assesses that will educate and engage your target market.

#### Linear Algebra

This text for a second course in linear algebra, aimed at math majors and graduates, adopts a novel approach by banishing determinants to the end of the book and focusing on understanding the structure of linear operators on vector spaces. The author has taken unusual care to motivate concepts and to simplify proofs. For example, the book presents - without having defined determinants - a clean proof that every linear operator on a finite-dimensional complex vector space has an eigenvalue. The book starts by discussing vector spaces, linear independence, span, basics, and dimension. Students are introduced to inner-product spaces in the first half of the book and shortly thereafter to the finite-dimensional spectral theorem. A variety of interesting exercises in each chapter helps students understand and manipulate the objects of linear algebra. This second edition features new chapters on diagonal matrices, on linear functionals and adjoints, and on the spectral theorem; some sections, such as those on self-adjoint and normal operators, have been entirely rewritten; and hundreds of minor improvements have been made throughout the text.

*Linear Algebra Done Right* Wellesley College

For courses in Advanced Linear Algebra. Illustrates the power of linear algebra through practical applications. This acclaimed theorem-proof text presents a careful treatment of the principal topics of linear algebra. It emphasizes the symbiotic relationship between linear transformations and matrices, but states theorems in the more general infinite-dimensional case where appropriate. Applications to such areas as differential equations, economics, geometry, and physics appear throughout, and can be included at the instructor's discretion. 0134860241 / 9780134860244 Linear Algebra, 5/e

*Advanced Linear Algebra* PHI Learning Pvt. Ltd.

This clear, concise and highly readable text is designed for a first course in linear algebra and is intended for undergraduate courses in mathematics. It focusses throughout on geometric explanations to make the student perceive that linear algebra is nothing but analytic geometry of  $n$  dimensions. From the very start, linear algebra is presented as an extension of the theory of simultaneous linear equations and their geometric interpretation is shown to be a recurring theme of the subject. The integration of abstract algebraic concepts with the underlying geometric notions is one of the most distinguishing features of this book — designed to help students in the pursuit of multivariable calculus and differential geometry in subsequent courses. Explanations and concepts are logically presented in a conversational tone and well-constructed writing style so that students at a variety of levels can understand the material and acquire a solid foundation in the basic skills of linear algebra.

*Understanding Analysis* Pearson Higher Ed

Skillfully organized introductory text examines origin of differential equations, then defines basic terms and outlines the general solution of a differential equation. Subsequent sections deal with integrating factors; dilution and accretion problems; linearization of first order systems; Laplace Transforms; Newton's Interpolation Formulas, more.

*Elementary Linear Algebra: Pearson New International Edition* Springer Science & Business Media

This is an introductory textbook designed for undergraduate mathematics majors with an emphasis on abstraction and in particular, the concept of proofs in the setting of linear algebra. Typically such a student would have taken calculus, though the only prerequisite is suitable mathematical grounding. The purpose of this book is to bridge the gap between the more conceptual and computational oriented undergraduate classes to the more abstract oriented classes. The book begins with systems of linear equations and complex numbers, then relates these to the abstract notion of linear maps on finite-dimensional vector spaces, and covers diagonalization, eigenspaces, determinants, and the Spectral Theorem. Each chapter concludes with both proof-writing and computational exercises.

*Abstract Algebra* Springer

This book on linear algebra and geometry is based on a course given by renowned academician I.R. Shafarevich at Moscow State University. The book begins with the theory of linear algebraic

equations and the basic elements of matrix theory and continues with vector spaces, linear transformations, inner product spaces, and the theory of affine and projective spaces. The book also includes some subjects that are naturally related to linear algebra but are usually not covered in such courses: exterior algebras, non-Euclidean geometry, topological properties of projective spaces, theory of quadrics (in affine and projective spaces), decomposition of finite abelian groups, and finitely generated periodic modules (similar to Jordan normal forms of linear operators). Mathematical reasoning, theorems, and concepts are illustrated with numerous examples from various fields of mathematics, including differential equations and differential geometry, as well as from mechanics and physics.

**SCHEDULE REVIEW COMMUNITIES**

If you're a fan of Friedberg Linear Algebra publication and love to share your thoughts and opinions, joining book evaluation neighborhoods is a must. These areas are a fantastic method to get in touch with like-minded individuals, find brand-new books, and share your testimonials with a wider audience.

**ONLINE PLATFORMS**

A number of online platforms are committed to publication testimonials, such as Goodreads, which is just one of one of the most preferred systems. Goodreads permits you to rate and review publications, get in touch with other viewers, and sign up with teams to discuss publications.

An additional prominent platform is Amazon, which not only allows you to buy publications however additionally provides a room for readers to leave evaluations. This suggests you can not just see what others think of Friedberg Linear Algebra publication, but you can likewise share your own viewpoints and aid others make notified decisions.

**RESERVE CLUBS**

Joining a book club is an amazing method to expand your reading perspectives and get in touch with other book lovers. Many book clubs have online neighborhoods where participants can discuss publications, leave testimonials, and share suggestions.

There are also many Friedberg Linear Algebra publication clubs that satisfy personally, which enables you to get in touch with people in your area and discuss publications face-to-face. Consult your library or bookstore for book clubs in your location.

On the whole, book testimonial communities supply a fantastic way to improve your analysis experience and connect with others. So, if you're passionate about Friedberg Linear Algebra, do not think twice to join these communities and share your love for literary works!

**FINAL THOUGHT: EMBRACE THE MAGIC OF FRIEDBERG LINEAR ALGEBRA PUBLICATION TESTIMONIALS**

To conclude, we wish this write-up has actually highlighted the importance of publication

testimonials and just how they can help you uncover your next favored read. From fiction to non-fiction, evaluations offer valuable responses to writers and overview viewers in choosing the right books based on their interests.

Yet it's not practically discovering the ideal Friedberg Linear Algebra book - testimonials create communities where publication fans can attach and share their ideas and opinions. Joining publication review neighborhoods can boost your reading experience and open your mind to new perspectives.

So, we urge you to embrace the magic of Friedberg Linear Algebra evaluations. Whether you're an experienced visitor or simply beginning your literary journey, reviews are a powerful device worldwide of literature. Your opinion matters, and by sharing your thoughts, you can assist shape the discussion around books.

We hope this article has motivated you to explore Friedberg Linear Algebra, get in touch with fellow readers, and compose your very own evaluations. Happy reading!

[Introduction to Applied Linear Algebra](#) Springer Science & Business Media

This book takes the reader on a journey through the world of college mathematics, focusing on some of the most important concepts and results in the theories of polynomials, linear algebra, real analysis, differential equations, coordinate geometry, trigonometry, elementary number theory, combinatorics, and probability. Preliminary material provides an overview of common methods of proof: argument by contradiction, mathematical induction, pigeonhole principle, ordered sets, and invariants. Each chapter systematically presents a single subject within which problems are clustered in each section according to the specific topic. The exposition is driven by nearly 1300 problems and examples chosen from numerous sources from around the world; many original contributions come from the authors. The source, author, and historical background are cited whenever possible. Complete solutions to all problems are given at the end of the book. This second edition includes new sections on quadratic polynomials, curves in the plane, quadratic fields, combinatorics of numbers, and graph theory, and added problems or theoretical expansion of sections on polynomials, matrices, abstract algebra, limits of sequences and functions, derivatives and their applications, Stokes' theorem, analytical geometry, combinatorial geometry, and counting strategies. Using the W.L. Putnam Mathematical Competition for undergraduates as an inspiring symbol to build an appropriate math background for graduate studies in pure or applied mathematics, the reader is eased into transitioning from problem-solving at the high school level to the university and beyond, that is, to mathematical research. This work may be used as a study guide for the Putnam exam, as a text for many different problem-solving courses, and as a source of problems for standard courses in undergraduate mathematics. Putnam and Beyond is organized for independent study by undergraduate and graduate students, as well as teachers and researchers in the physical sciences who wish to expand their mathematical horizons.

[Linear Algebra Math Classics](#)

"This book is intended for first- and second-year undergraduates arriving with average mathematics grades ... The strength of the text is in the large number of examples and the step-by-step

explanation of each topic as it is introduced. It is compiled in a way that allows distance learning, with explicit solutions to all of the set problems freely available online <http://www.oup.co.uk/companion/singh>" -- From preface.

[Linear Algebra as an Introduction to Abstract Mathematics](#) Springer Science & Business Media

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780201526752 .

[Introduction to Linear Algebra with Applications](#) Courier Corporation

With the inclusion of applications of singular value decomposition (SVD) and principal component analysis (PCA) to image compression and data analysis, this edition provides a strong foundation of linear algebra needed for a higher study in signal processing. The use of MATLAB in the study of linear algebra for a variety of computational purposes and the programmes provided in this text are the most attractive features of this book which strikingly distinguishes it from the existing linear algebra books needed as pre-requisites for the study of engineering subjects. This book is highly suitable for undergraduate as well as postgraduate students of mathematics, statistics, and all engineering disciplines. The book will also be useful to Ph.D. students for relevant mathematical resources. NEW TO THIS EDITION The Third Edition of this book includes: • Simultaneous diagonalization of two diagonalizable matrices • Comprehensive exposition of SVD with applications in shear analysis in engineering • Polar Decomposition of a matrix • Numerical experimentation with a colour and a black-and-white image compression using MATLAB • PCA methods of data analysis and image compression with a list of MATLAB codes

[Elementary Linear Algebra](#) Academic Internet Pub Incorporated

Tough Test Questions? Missed Lectures? Not Enough Time? Textbook too Pricey? Fortunately, there's Schaum's. This all-in-one-package includes more than 600 fully-solved problems, examples, and practice exercises to sharpen your problem-solving skills. Plus, you will have access to 25 detailed videos featuring math instructors who explain how to solve the most commonly tested problems--it's just like having your own virtual tutor! You'll find everything you need to build confidence, skills, and knowledge for the highest score possible. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. Helpful tables and illustrations increase your understanding of the subject at hand. Schaum's Outline of Linear Algebra, Sixth Edition features: • Updated content to match the latest curriculum • Over 600 problems with step-by-step solutions • An accessible outline format for quick and easy review • Clear explanations for all linear algebra concepts • Access to revised Schaums.com website with access to 25 problem-solving videos, and more

[Matrix Analysis](#) Springer Science & Business Media

Book Description: Gilbert Strang's textbooks have changed the entire approach to learning linear algebra -- away from abstract vector spaces to specific examples of the four fundamental

subspaces: the column space and nullspace of  $A$  and  $A'$ . Introduction to Linear Algebra, Fourth Edition includes challenge problems to complement the review problems that have been highly praised in previous editions. The basic course is followed by seven applications: differential equations, engineering, graph theory, statistics, Fourier methods and the FFT, linear programming, and computer graphics. Thousands of teachers in colleges and universities and now high schools are using this book, which truly explains this crucial subject.

### **REVIEW OF FRIEDBERG LINEAR ALGEBRA**

- This is a great book - lots of fun ideas for the kids!

• This is a praiseworthy book, for it is apt to elevate those who read it to a higher ethical plane! But some of the key principles discussed in the book are evocative of questions and reservations; and I ask Rabbi Telushkin whether strict prohibitions against "evil-tongued speech" (lashon harah) permit balanced biographies of living persons to be written. I am reading a biography of a living scientist at the moment, and by any conventional standard, the biography is excellent. In fact, its excellence derives in part from its balanced discussion of this scientist's personality profile, which is characterized, of course, by both positive and negative features (and the negatives are pretty repugnant).