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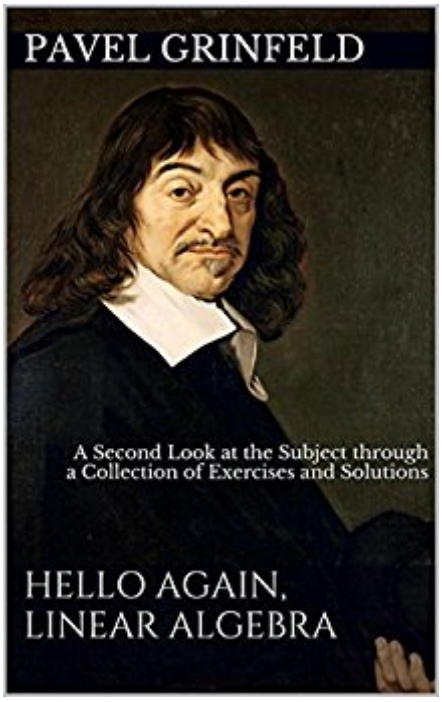
Hello Again, Linear Algebra: A Second Look At The Subject Through A Collection Of Exercises And Solutions



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Synopsis

Check out a complete series of videos on YouTube: http://bit.ly/YT4AMZHALA !We answer all the questions left in the comments section.This book is for current linear algebra students looking to master the concepts of the subject, and for those who have taken it in the past looking for a refresher. It's an easy read which aims to illustrate concepts with examples and exercises.Linear algebra is a grand subject. Because it is fundamentally different from any high school mathematics, and because of the wildly varying quality of instructors, not all students enjoy learning it. In either case, whether you loved it or hated it, it takes several passes to learn linear algebra to the point that it becomes one of your favorite tools, one of your favorite ways of thinking about practical problems.This little textbook invites you on your second pass at linear algebra. Of course, your second pass may take place alongside your first pass. You may find this textbook particularly useful if you are studying for a test. Our goal is to take a step back from the mechanics of the subject with an eye towards gaining a larger view. A larger view, however, is achieved in small steps. We are not hoping for a big revelation but for a few small aha! moments. It simply takes time to put together the grand puzzle of linear algebra. You will get there, and the point, as the cliche goes, is to enjoy the ride.Psychology in mathematics is everything. I chose the topics according to the impact I feel they would make on your relationship with linear algebra. The textbook's utmost goal is to make you feel positively about the subject. You will find that some topics are surprisingly simple, others surprisingly tough. Some topics have important applications, others have none at all. Some were well presented in your linear algebra course, others skipped altogether. However, I hope you will find that all topics bring you a little closer to the subject of linear algebra.

Book Information

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Customer Reviews

In an age where mathematics textbooks seem to only grow more and more convoluted in their approach to and explanation of foundational topics such as Linear Algebra, Dr. Grinfeld's writing is a breath of fresh air.I had the privilege of learning Linear Algebra from Dr. Grinfeld firsthand. His love for the subject is readily apparent in his quality of teaching as well as his ability to effectively communicate a deep understanding of Linear Algebra in an accessible manner.I am pleased to discover that the same quality of teaching found in his classroom can be obtained in this book (at a much more competitive price too!). For anyone who cares about knowing a subject through and through or simply desires a deeper grasp of Linear Algebra I can offer no better place to turn to than this book. Read it to learn. Read it to test your understanding. Read it to refresh your understanding.

The guide is short and to the point, and reviews in an intuitive way the concepts of linear algebra. Since it's such a short read and provides examples that allow the student to develop an instinctive sense for solving common problems, I would recommend it as a companion to any new student in a linear algebra class, as well as anyone looking to review the basics of the subject.The exercises are simple enough to teach the basics, and the more challenging problems and explanations are thought provoking enough to develop mastery of the subject - adequately preparing the reader for tough extra credit problems to be faced on an exam.

This is an excellent book on the subject written by Dr. Pavel Grinfield a know expert in the field. Dr. Grinfield has posted a complete set of lectures on Youtube. I have found this an excellent way to learn the subject.

Grinfeld's teaching methods reach into the mind of the student and allows the student to fulfill their potential at a stress free pace. His explanations and approaches are bullet proof especially when applied to his exercises and problems which further clarify the theory of the subject. It's apparent

that what is most important for the reader is not being able to solve highly confusing systems with ease using tricks or muscle memory, but instead having a complete understanding of the theory.I don't see the importance in the practice of solving a 100x100 linear systems by hand, when a computer can do it in a moment's time. What is important however, is understanding the frame work upon which linear algebra is founded. This book takes full advantage of this idea and I highly recommend this book to anyone who wishes to explore or even look back on the subject of linear algebra.Also, the connections to history and applied mathematics add a nice touch of relevance and entertainment.

This is nice ebook that expands on your regular linear algebra book and is supported by load of videos by the author on YouTube.

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