



# Vector Space Projections: A Numerical Approach to Signal and Image Processing, Neural Nets, and Optics

*By Henry Stark, Yongyi Yang*

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## **Vector Space Projections: A Numerical Approach to Signal and Image Processing, Neural Nets, and Optics** By Henry Stark, Yongyi Yang

A guide to the theory and application of methods of projections.

With the rise of powerful personal computers, methods of vector space projections have moved rapidly from the realm of theory into widespread use. This book reflects the growing interest in the application of these methods to problem solving in science and engineering. It brings together material previously scattered in disparate papers, book chapters, and articles, and offers a systematic treatment of vector space projections.

Written by two leading authorities in the field, this self-contained volume provides a tutorial on projection methods and how to apply them in science and engineering. It details effective problem-solving strategies, and explores key applications in communication and signal processing, neural networks and pattern recognition, and optics and image processing. This book:

- \* Reviews the fundamentals of vector space theory
- \* Covers principles and applications of vector space projections in general, and projections onto convex sets in particular
- \* Provides real-world examples solvable on PCs and modest workstations
- \* Features more than 100 illustrations
- \* Includes end-of-chapter exercises and references.

This extremely useful reference for practicing engineers, scientists, and educators can also be used for graduate-level study in science, mathematics, and engineering. Portions of the book have been used as material in short courses on applications of vector space projections.

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- Sales Rank: #3574201 in Books
- Published on: 1998-02-27
- Original language: English
- Number of items: 1
- Dimensions: 9.47" h x 1.00" w x 6.42" l, 1.68 pounds
- Binding: Hardcover
- 408 pages

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### **Editorial Review**

#### **Review**

"...a very useful addition among classical signal processing texts...it can be warmly recommended..." (*Analog Dialogue*, Vol. 36, No. 5, September-October 2002)

#### **From the Publisher**

This book deals with the theory and applications of a mathematical technique known as "projections onto convex sets" which is used for solving problems in science and engineering. The material applies to all branches of science and engineering.

#### **From the Back Cover**

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### **Users Review**

#### **From reader reviews:**

##### **Charles Settles:**

Spent a free time for you to be fun activity to try and do! A lot of people spent their sparetime with their family, or their friends. Usually they undertaking activity like watching television, going to beach, or picnic inside park. They actually doing same every week. Do you feel it? Would you like to something different to fill your personal free time/ holiday? Could be reading a book is usually option to fill your totally free time/ holiday. The first thing you ask may be what kinds of book that you should read. If you want to consider

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**William Marshall:**

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