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**Introduction to Linear Algebra,  
Fifth Edition (2016) by Gilbert  
Strang (gilstrang@gmail.com)  
ISBN : 978-09802327-7-6.**

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**Gilbert Strang is a Professor  
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**This book is designed to help students understand and solve the four central problems of linear algebra that involve: (1) linear systems, (2)**

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**Image taken from Introduction to Linear Algebra — Strang A plane can be described by a basis of vectors that span the plane. We let these vectors form the column space of  $A$ . Our error term will...**

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**Professor Strang has  
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**author of the widely-used  
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**Ed 5, Gilbert Strang -  
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(2016, Wellesley-Cambridge  
Press).pdf** Mahmood Nahvi,

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**[Introduction to Linear Algebra,  
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University Press, 2009. — 586  
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combination  $x_1 w_1 + x_2 w_2 + x_3 w_3$   
that gives the zero vector:  $1 \ 4$   
 $7 \ w = ? \ 2 = ? \ 5 = ? \ 8 \ ? \ . \ 1 \ ? \ w \ 2 \ ?$   
 $w \ 3$

**MANUAL FOR INSTRUCTORS**

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**you will need to miss an exam  
for an athletic game, please let  
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**Strang John L. Weatherwax?  
January 1, 2006 Introduction A  
Note on Notation In these  
notes, I use the symbol  $E$  to  
denote the results of  
elementary elimination  
matrices used to transform a**

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given matrix into its reduced  
row echelon form. Thus when  
looking for the eigenvectors  
for a matrix like  $A = \begin{bmatrix} 0 & 0 & 2 & 0 & 1 & 0 \\ 0 & 0 & 2 & & & \end{bmatrix}$

[Linear Algebra for Everyone,](#)

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[Gilbert Strang](#)

**There is newer edition of the  
book: Strang, Gilbert.  
Introduction to Linear Algebra.  
5th ed. Wellesley-Cambridge  
Press, 2016. ISBN:**

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**9780980232776. NOTE: More material on linear algebra (and much more about differential equations) is in Professor Strang's 2014 textbook Differential Equations and Linear Algebra.**

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**Textbook: Gilbert Strang,  
Introduction to Linear Algebra,  
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### 100 Solutionsto Exercises 10

$\det(A - \lambda I) = \lambda^2 - 1.4\lambda + 0$  so  $A$   
has  $\lambda_1 = 1$  and  $\lambda_2 = 0$  with  $x_1 =$   
 $(1, 2)$  and  $x_2 = (1, -1)$ .  $A$  has  $\lambda_1 = 1$  and  $\lambda_2 = 0$  (same  
eigenvectors).  $A^{100}$  has  $\lambda_1 = 1$   
and  $\lambda_2 = (0.4)^{100}$  which is

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**near zero. So  $A_{100}$  is very  
near  $A$ : same eigenvectors  
and close eigenvalues. 11  
Columns of  $A$ ? 1  
are in the nullspace of 2  
because  $M = (2)(1)$  is the zero  
matrix [this is the ...**

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