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Dr. Anthony  
Yeates

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Minimizing  $x$   
Subject to  $Ax =$   
 $b$  *Topic 3b --*

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Lecture 24

Exercise 1 NLA

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**Analysis NLA**

~~Lecture 7~~

~~Exercise 3 Part~~

~~1 NLA Lecture 17~~

~~Exercise 2 NLA~~

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~~Lecture 21~~

~~Exercise 6~~

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Numerical

Analysis

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Lecture *John von*

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*Lecture 2*

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2 Orthogonal

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various problems  
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main focus of



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we arrive at  
what Gilbert  
Strang calls the  
Fundamental  
Theorem of  
Linear Algebra:  
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 $\oplus \text{Ker}(A)$ ,  $\text{Ran}(A^*) \perp \text{Ker}(A)$ .

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sometimes called  
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algebra, is the  
study of how  
matrix

operations can  
be used to  
create computer  
algorithms which  
efficiently and

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approximate  
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