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Transformations  
Range and Null  
Space: Rank and  
Nullity Consider A

$R^m \times n$  as a  
mapping  $A : R^n$   
 $R^m, Ax = y, x$   
 $R^n, y \in R^m.$

Observations 1.  
Every  $x \in R^n$  has  
an image  $y \in R^m,$   
but every  $y \in R^m$  is not in.

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and matrices will be introduced and their application within an engineering context demonstrated.

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Mathematics,  
Modelling,  
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In the case where z can  
be written in the

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form  $x + iy$  it is easily verified, by direct multiplication of the components, that

the

product  $zz^*$  gives a real result:  $zz^* = (x + iy)(x - iy) = x^2 - ixy + ixy - i^2y^2 = x^2 + y^2 = |z|^2$ . Complex

conjugation

corresponds to a reflection of  $z$  in the real axis of the

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Argand diagram, as  
may be seen in  
figure 3.6.

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before, complicated  
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procedures are  
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useful in solving  
algebraic,  
differential, and  
integral equations.

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