

### **linear algebra theory and pdf**

In linear algebra, the minimal polynomial of an  $n \times n$  matrix  $A$  over a field  $F$  is the monic polynomial  $P$  over  $F$  of least degree such that  $P(A) = 0$ . Any other polynomial  $Q$  with  $Q(A) = 0$  is a (polynomial) multiple of  $P$ . The following three statements are equivalent:  $\lambda$  is a root of  $P$ ;  $\lambda$  is a root of the characteristic polynomial of  $A$ ;  $\lambda$  is an eigenvalue of matrix  $A$ .

### **Minimal polynomial (linear algebra) - Wikipedia**

A scalar is an element of a field which is used to define a vector space. A quantity described by multiple scalars, such as having both direction and magnitude, is called a vector. In linear algebra, real numbers or other elements of a field are called scalars and relate to vectors in a vector space through the operation of scalar multiplication, in which a vector can be multiplied by a number ...

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