

Instructor solution manual calculus

Tom apóstol Vol II, capítulo 4

AUTOVALORES Y AUTOVECTORES

4.1 Transformaciones lineales representadas mediante matrices diagonales

Sea $T: V \rightarrow V$ una transformación lineal en un espacio lineal V de dimensión finita. Las propiedades de T que son independientes de cualquier sistema de coordenadas (base), se denominan *propiedades intrínsecas* de T . Si se puede elegir una base de manera que la matriz resultante tenga una forma especialmente sencilla, existe la posibilidad de reconocer algunas de las propiedades directamente a partir de la representación matricial.

Entre los tipos sencillos de matrices están las diagonales. Cabe entonces preguntarse si toda transformación lineal puede representarse mediante una matriz diagonal. En el capítulo 2 se trató el problema de hallar una representación en matriz diagonal de una transformación lineal $T: V \rightarrow W$, siendo $\dim V = n$ y $\dim W = m$. En el teorema 2.14 se demostró que siempre existe una base (e_1, \dots, e_n) para V y otra (w_1, \dots, w_m) para W tales que la matriz de T en relación a este par de bases es una matriz diagonal. En particular, si $W = V$ la matriz será cuadrada. Ahora se trata de utilizar la *misma base* para V y W . Con esta restricción no siempre es posible encontrar una representación de T en matriz diagonal. Abordemos, entonces, el problema de determinar qué transformaciones tienen una representación en matriz diagonal.

Notación: Si $A = (a_{ij})$ es una matriz diagonal escribimos $A = \text{diag}(a_{11}, a_{22}, \dots, a_{nn})$.

Es sencillo establecer una condición necesaria y suficiente para que una transformación lineal tenga una representación en matriz diagonal.

TEOREMA 4.1. *Dada una transformación $T: V \rightarrow V$, donde $\dim V = n$. Si T tiene una representación en matriz diagonal, existe entonces un conjunto de*

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