

# 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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**C Cleary**



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