

Elementary Matrices

Let us put the 3 row vectors together as the rows of the matrix

$$E_1 = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ -4 & 0 & 1 \end{bmatrix}.$$

What is the effect of multiplying A from the left with E_1 ?

$$E_1 A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ -4 & 0 & 1 \end{bmatrix} \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} = \begin{bmatrix} a & b & c \\ d & e & f \\ g - 4a & h - 4b & i - 4c \end{bmatrix}$$

Addition of -4 times row 1 of A to row 3 produces $E_1 A$

E_1 is called an elementary matrix: It performs elementary row operations when it multiplies from the left the matrix A .

Elementary Matrix Algebra

Richard O. Hill



Elementary Matrix Algebra:

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Elementary Matrix Algebra**

In a global inundated with displays and the cacophony of quick interaction, the profound energy and mental resonance of verbal artistry usually disappear into obscurity, eclipsed by the regular barrage of noise and distractions. Yet, nestled within the lyrical pages of **Elementary Matrix Algebra**, a fascinating function of literary brilliance that pulses with fresh feelings, lies an memorable trip waiting to be embarked upon. Penned with a virtuoso wordsmith, this mesmerizing opus guides readers on a mental odyssey, gently exposing the latent potential and profound affect stuck within the complex internet of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is key subjects, dissect their fascinating publishing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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