

$$\begin{array}{cccc}
 & \mathbf{11} & \mathbf{10} & \mathbf{01} & \mathbf{00} \\
 & \downarrow & \downarrow & \downarrow & \downarrow \\
 K_2 = & \left[ \begin{array}{cccc}
 \alpha \cdot \alpha & \alpha \cdot \beta & \beta \cdot \alpha & \beta \cdot \beta \\
 \alpha \cdot \beta & \alpha \cdot \gamma & \beta \cdot \beta & \beta \cdot \gamma \\
 \beta \cdot \alpha & \beta \cdot \beta & \gamma \cdot \alpha & \gamma \cdot \beta \\
 \beta \cdot \beta & \beta \cdot \gamma & \gamma \cdot \beta & \gamma \cdot \gamma
 \end{array} \right] & \leftarrow & \mathbf{11} \\
 & & & \leftarrow & \mathbf{10} \\
 & & & \leftarrow & \mathbf{01} \\
 & & & \leftarrow & \mathbf{00}
 \end{array}$$