

Universidade Federal de Santa Catarina

EEL7123/EEL510457

Solução Problema 4.6

Problema 4.6. Para umas entradas $Y = 13_{10}$ e $Z = 15_{10}$ faça a operação $(Y \times Z)_{RNS}$ e $(Y + Z)_{RNS}$ para os conjunto de módulos:

(a) $M1=\{3,5,7,17\};$

$$\begin{aligned} |13 \times 15|_{\{3,5,7,17\}} &= (0, 0, 6, 8)_{\{3,5,7,17\}}; \\ |13 + 15|_{\{3,5,7,17\}} &= (1, 3, 0, 11)_{\{3,5,7,17\}}. \end{aligned}$$

(b) $M2=\{16,15,17\};$

$$\begin{aligned} |13 \times 15|_{\{16,15,17\}} &= (3, 0, 8)_{\{16,15,17\}}; \\ |13 + 15|_{\{16,15,17\}} &= (12, 13, 11)_{\{16,15,17\}}. \end{aligned}$$

(c) $M3=\{7,13,23\};$

$$\begin{aligned} |13 \times 15|_{\{7,13,23\}} &= (6, 0, 11)_{\{7,13,23\}}; \\ |13 + 15|_{\{7,13,23\}} &= (0, 2, 5)_{\{7,13,23\}}. \end{aligned}$$