- **Message Set** $\mathcal{W} = \{1, 2, \cdots, M\}$

- **Codewords** $e(1), e(2), \cdots, e(M)$, where $e(w) = (x_1(w), x_2(w), \cdots, x_n(w))$

- **Codebook** The set of all codewords.