

Chapter 2

2.3 Since m is not a prime, it can be factored as the product of two integers a and b ,

$$m = a \cdot b$$

with $1 < a, b < m$. It is clear that both a and b are in the set $\{1, 2, \dots, m-1\}$. It follows from the definition of modulo- m multiplication that

$$a \square b = 0.$$

Since 0 is not an element in the set $\{1, 2, \dots, m-1\}$, the set is not closed under the modulo- m multiplication and hence can not be a group.

2.5 It follows from Problem 2.3 that, if m is not a prime, the set $\{1, 2, \dots, m-1\}$ can not be a group under the modulo- m multiplication. Consequently, the set $\{0, 1, 2, \dots, m-1\}$ can not be a field under the modulo- m addition and multiplication.

2.7 First we note that the set of sums of unit element contains the zero element 0. For any $1 \leq \ell < \lambda$,

$$\sum_{i=1}^{\ell} 1 + \sum_{i=1}^{\lambda-\ell} 1 = \sum_{i=1}^{\lambda} 1 = 0.$$

Hence every sum has an inverse with respect to the addition operation of the field $\text{GF}(q)$. Since the sums are elements in $\text{GF}(q)$, they must satisfy the associative and commutative laws with respect to the addition operation of $\text{GF}(q)$. Therefore, the sums form a commutative group under the addition of $\text{GF}(q)$.

Next we note that the sums contain the unit element 1 of $\text{GF}(q)$. For each nonzero sum

$$\sum_{i=1}^{\ell} 1$$

with $1 \leq \ell < \lambda$, we want to show it has a multiplicative inverse with respect to the multiplication operation of $\text{GF}(q)$. Since λ is prime, ℓ and λ are relatively prime and there exist two

Error Control Coding Solution Manual

Brendan G. Carr



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Error Correction Coding Todd K. Moon, 2020-12-15 Providing in depth treatment of error correction Error Correction Coding Mathematical Methods and Algorithms 2nd Edition provides a comprehensive introduction to classical and modern methods of error correction The presentation provides a clear practical introduction to using a lab oriented approach Readers are encouraged to implement the encoding and decoding algorithms with explicit algorithm statements and the mathematics used in error correction balanced with an algorithmic development on how to actually do the encoding and decoding Both block and stream convolutional codes are discussed and the mathematics required to understand them are introduced on a just in time basis as the reader progresses through the book The second edition increases the impact and reach of the book updating it to discuss recent important technological advances New material includes Extensive coverage of LDPC codes including a variety of decoding algorithms A comprehensive introduction to polar codes including systematic encoding decoding and list decoding An introduction to fountain codes Modern applications to systems such as HDTV DVBT2 and cell phones Error Correction Coding includes extensive program files for example C code for all LDPC decoders and polar code decoders laboratory materials for students to implement algorithms and an updated solutions manual all of which are perfect to help the reader understand and retain the content The book covers classical BCH Reed Solomon Golay Reed Muller Hamming and convolutional codes which are still component codes in virtually every modern communication system There are also fulsome discussions of recently developed polar codes and fountain codes that serve to educate the reader on the newest developments in error correction **Error-correcting Coding Theory** Man Young Rhee, 1989

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Coding Shu Lin,Daniel J. Costello,1983 Completely updated to cover latest developments this text provides a bridge between introductory courses in digital communications and more advanced courses in information technology It presents state of the art control techniques **Integrating ERP, CRM, Supply Chain Management, and Smart Materials** Dimitris N.

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