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A parity bit is a bit that is added to a group of source bits to ensure that the number of set bits (i.e., bits with value 1) in the outcome is even or odd.

It is a very simple scheme that can be used to detect single or any other odd number (i.e., three, five, etc.) of errors in the output. An even number of flipped bits will make the parity bit appear correct even though the data is erroneous.

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As a text the book can be used as the basis for a two-semester sequence in coding theory, with Chapters 1-10 on the fundamentals of block codes covered in one semester and the remaining chapters on convolutional codes and advanced block code topics in a second semester.

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