Coding Theory

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Chapter 1

Linear Codes.

1.1 Definitions, Generator, and Check Matrices.

Bibliography

- [1] D. J. Welsh, *Codes and cryptography*. Oxford Oxfordshire New York: Clarendon Press Oxford University Press, 1988.
- [2] I. N. Herstein, Topics in algebra. New York: Wiley, 1975.
- [3] K. Hoffman and R. Kunze, *Linear algebra*. Englewood Cliffs, NJ: Prentice-Hall, 1971.
- [4] J. Lint, Introduction to coding theory. Berlin New York: Springer, 1999.
- [5] J. Justesen and T. Høholdt, A course in error-correcting codes. Zurich, Switzerland: European Mathematical Society, 2017.
- [6] R. McEliece, *The theory of information and coding*. Cambridge: Cambridge University Press, 2001.