

## References

- Assmus, E. F. and Key, J. D. [1992], 'Hadamard matrices and their designs: A coding-theoretic approach', *Transactions of the American Mathematical Society* **330**(1), 269–293.  
**URL:** <http://www.jstor.org/stable/2154164>
- Baylis, J. [2010], 'Codes, not ciphers', *The Mathematical Gazette* **94**(531), 412–425.  
**URL:** <http://www.jstor.org/stable/25759725>
- Bystrykh, L. V. [2012], 'Generalized dna barcode design based on hamming codes', *PLOS ONE* .  
**URL:** <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0036852>
- Daily Mail [2015], 'WHAT IS CRISPR-CAS9?'.  
**URL:** <http://www.dailymail.co.uk/sciencetech/fb-5151843/WHAT-CRISPR-CAS9.html>
- del Río, Á. and Rifa, J. [2012], 'Families of hadamard  $2^{2k} \times 2^{2k}$ -codes', *CoRR* **abs/1211.5251**.  
**URL:** <http://arxiv.org/abs/1211.5251>
- Ehrenborg, R. [2006], 'Decoding the hamming code', *Math Horizons* **13**(4), 16–17.  
**URL:** <http://www.jstor.org/stable/25678619>
- Golomb, S. W. and Baumert, L. D. [1963], 'The search for hadamard matrices', *The American Mathematical Monthly* **70**(1), 12–17.  
**URL:** <http://www.jstor.org/stable/2312777>
- Goodger, D. and van Rossum, G. [2014], 'Pep 257: Docstring conventions', PEP at <https://legacy.python.org/dev/peps/pep-0257>.
- Guruswami, V. [2010], 'Introduction to coding theory'.  
**URL:** <http://www.cs.cmu.edu/~venkatg/teaching/codingtheory/notes/notes1.pdf>
- Hamming, R. W. [1950], 'Error detecting and error correcting codes', *The Bell System Technical Journal* **26**(2), 147–160.  
**URL:** <http://sb.fluomedia.org/hamming/>
- Hedayat, A. and Wallis, W. D. [1978], 'Hadamard matrices and their applications', *The Annals of Statistics* **6**(6), 1184–1238.  
**URL:** <http://www.jstor.org/stable/2958712>
- Kneale, W. [1956], 'Boole and the algebra of logic', *Notes and Records of the Royal Society of London* **12**(1), 53–63.  
**URL:** <http://www.jstor.org/stable/530792>
- Oztas, E. S. and Siap, I. [2013], 'Lifted polynomials over  $F_{16}$  and their applications to dna codes', *Filomat* **27**(3), 459–466.  
**URL:** <http://www.jstor.org/stable/24896375>
- Petoukhov, S. V. [2008], The degeneracy of the genetic code and hadamard matrices.  
**URL:** <https://arxiv.org/pdf/0802.3366.pdf>
- Pless, V. [1978], 'Error correcting codes: Practical origins and mathematical implications', *The American Mathematical Monthly* **85**(2), 90–94.  
**URL:** <http://www.jstor.org/stable/2321784>
- Shannon, C. E. [1948], 'A mathematical theory of communication', *The Bell System Technical Journal* **27**, 379–423, 623–656.  
**URL:** <http://affect-reason-utility.com/1301/4/shannon1948.pdf>

Spence, E. [1972], 'Hadamard designs', *Proceedings of the American Mathematical Society* **32**(1), 29–31.

**URL:** <http://www.jstor.org/stable/2038298>

Trinh, Q. and Fan, P. [2008], 'Construction of multilevel hadamard matrices with small alphabet', **44**, 1250 – 1252.

Yu, Q., Maddah-Ali, M. A. and Avestimehr, A. S. [2017], 'Polynomial codes: an optimal design for high-dimensional coded matrix multiplication', *CoRR* **abs/1705.10464**.

**URL:** <http://arxiv.org/abs/1705.10464>