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## 留言板

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## 参考文献

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- [2] 王新梅 肖国镇编著，《纠错码——原理与方法》. 西安电子科技大学出版社
- [3] 吴伟陵编著 《信息处理与编码》，人民邮电出版社，1999
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## 经典文献

- Shannon, Claude E. "A Mathematical Theory of Communication." *Bell System Technical Journal* 27 (July and October 1948): 379-423 (Part I), 623-656 (Part II). These seminal papers are available in several forms (see [bibliographic notes](#))
  - [PDF version](#) of original papers, with corrections but without Shannon's 1949 modifications.
  - Shannon, Claude E., and Warren Weaver. *The Mathematical Theory of Communication*. Urbana, IL: University of Illinois Press, 1949, with later editions 1963 and 1998. ISBN: 0252725468. (incorporating a number of modifications and corrections by Shannon).
  - Shannon, Claude E. *A Mathematical Theory of Communication*. 50th Anniversary Edition, printed for the 1998 IEEE International Symposium on Information Theory. Cambridge, MA: MIT, August 16-21, 1998. ISBN: 0252725468. (based on 1949 book, with corrections).
  - Reprinted in *Key Papers in the Development of Information Theory*. Edited by D. Slepian. New York, NY: IEEE Press, 1974. ISBN: 0879420278.
  - Reprinted in *Claude Elwood Shannon: Collected Papers*. Edited by N. J. A. Sloane, and A. D. Wyner. IEEE Press, New York, 1993. ISBN: 0780304349.

## 历史资料

- [Claude E. Shannon \(1916 - 2001\)](#)
  - [obituary](#), Tech Talk, MIT
- Wyner, Aaron D. *The Significance of Shannon's Work*

## 经典著作

There are many excellent texts on communications, most of which assume a familiarity with mathematics beyond introductory calculus. Almost all cover Shannon's work, and some also discuss feedback error control techniques.

- Cover, Thomas M., and Joy A. Thomas. *Elements of Information Theory*. John Wiley & Sons, Inc., New York, NY, 1991. ISBN: 0471062596.  
Aimed at university seniors and first-year graduate students. One of several excellent books of that era. Professor Cover, at Stanford University, is one of the leaders in Information Theory.
- Hambley, Allan R. *An Introduction to Communication Systems*. Computer Science Press, 1990.

Discussion of various types of error control coding, including FEC (Forward Error Correction) and ARQ (Automatic Repeat Query) techniques, pp. 427 - 479.

- Gallager, Robert G. *Information Theory and Reliable Communications*. New York, NY: John Wiley & Sons, Inc., 1968. ISBN: 0471290483.  
One of the early textbooks, designed for first-year graduate students, by one of the pioneers in communications, an MIT faculty member, later awarded the IEEE Medal of Honor, its most prestigious award.
- Haykin, Simon. *Communication Systems*. 4th ed. New York, NY: John Wiley and Sons, Inc., 2001. ISBN: 047140182X.
- Pierce, John R. *An Introduction to Information Theory: Symbols, Signals, and Noise*. 2nd ed. New York, NY: Dover Publications, Inc., 1961, 1980. ISBN: 0486240614.  
Mostly nonmathematical, by one of the nation's great scientific contributors at AT&T Bell Laboratories, who was also interested in reaching a general audience. He was later on the faculty at Caltech. One of his interesting sideline activities was writing science fiction stories under the pen name J. J. Coupling. He died April 2, 2002 at the age of 92.

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