



Codes and Turbo Codes

By -

Springer. Paperback. Condition: New. 400 pages. Dimensions: 9.6in. x 6.1in. x 0.8in. What is commonly called the information age began with a double big bang. It was 1948 and the United States of America was continuing to invest heavily in high-tech research, the first advantages of which had been reaped during the Second World War. In the Bell Telephone Laboratories, set up in New Jersey, to the south of New York, several teams were set up around brilliant researchers, many of whom had been trained at MIT (Massachusetts Institute of Technology). That year two exceptional discoveries were made, one technological and the other theoretical, which were to mark the 20th century. For, a few months apart, and in the same institution John Bardeen, Walter Brattain and William Shockley invented the transistor while Claude Elwood Shannon established information and digital communications theory. This phenomenal coincidence saw the birth of near-twins: the semi-conductor component which, according to its conduction state (on or off), is able to materially represent binary information (0 or 1) and the Shannon orbit (short for binary unit), a unit that measures information capacity. Today we can recognize the full importance of these two inventions that enabled the tremendous expansion of computing and telecommunications, to name but these two. Since 1948, the meteoric progress of electronics, then of micro-electronics, has provided engineers and researchers in the world of telecommunications with a support for their innovations, in order...



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