

DVB-S2 technology and channel coding using LDPC

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Abstract: This topic focuses on researching the digital video broadcasting system (DVB-S2) combined with LDPC codes in improving communication performance. The context of the topic is based on the high demand for digital television and data services in the internet era. The objective is to build a robust channel coding system, using DVB-S2 combined with LDPC to optimize transmission performance. The research method includes theoretical analysis of DVB-S2 and LDPC, followed by experimental implementation on a digital platform. The expected result is to provide an advanced channel coding solution with strong anti-interference capability, contributing to the development of digital transmission technology.

Keywords: DVB-S2, LDPC, Channel coding