

Simulation and analysis of digital modulation methods using Matlab software

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Abstract: This study focuses on simulating and analyzing digital modulation methods through the Matlab software platform. The practical context shows a high demand in the field of digital transmission, requiring an efficient system to optimize the information transmission process. The objective of the project is to build and evaluate the effectiveness of common digital modulation methods by implementing models in Matlab. The research method applies both digital modulation theory and visual experimentation on the software. The expected results will provide a solid theoretical foundation and essential technical suggestions, contributing to the development of digital transmission technology.

Keywords: Development of transmission systems, Digital modulation methods, Matlab software, Digital simulation, Information transmission optimization