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### Abstract

Digital signal processing is the method to use digital signal for processing the system. This thesis presents an application of digital signal processor to implement the digital modulation systems, such as differential phase shift keying , 8 phase shift keying and 16 quadrature amplitude modulation. To implement the proper hardware and software systems , the functions of digital modulation , such as data encoder , carrier generator , digital modulator and signal summation are reported. The advantage of digital signal processor is high speed modulation. According to the software operating system, therefore, it is convenience to modify the characteristics of digital modulation systems.