

DEVELOPMENT OF A PULSE COMPRESSION
DMS SYSTEM USING SURFACE ACOUSTIC WAVE DEVICES

Donald W. Mellon and William D. Daniels
Texas Instruments Incorporated
Dallas, Texas

Abstract

The development of a chirp pulse pair DME system using surface wave devices (SWD) for pulse expansion and compression and as delay lines for time domain decoding is discussed. Pulse compression allows improvements in receiver sensitivity and frequency band channelization while SWD's provide size, weight, and performance improvements.