

## VI-2 STATUS AND FUTURE OF IMPATTS

B.C. deLoach (Invited)

*Bell Telephone Laboratories, Inc.*

The state of the art of the (IMPATT) Avalanche Transit Time Diodes will be discussed. A brief qualitative discussion of the operating principles of these devices will be followed by a detailed summary of the experimental and theoretical advances to date.

The work recorded will include power-frequency, efficiency, and noise performance. Variations of these properties with different materials will be discussed.

**DIAMOND ANTENNA & MICROWAVE CORPORATION**

Winchester, Mass.

R.F. Engineers, MFRS - Rotary Joints,  
Antennas, Components