## University of California Berkeley

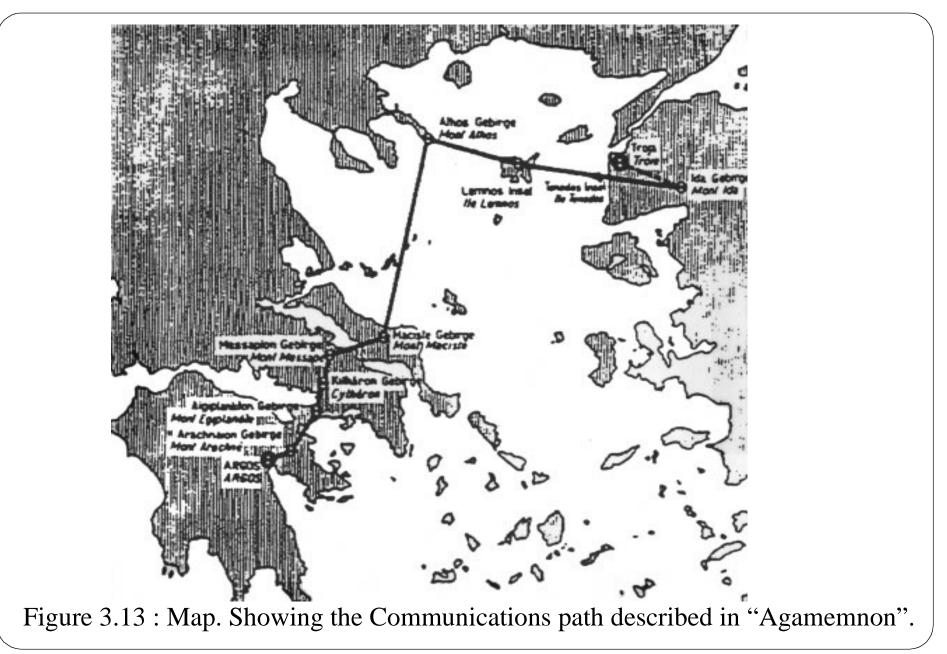
College of Engineering Department of Electrical Engineering and Computer Sciences

Professors : N.Morgan / B.Gold EE225D

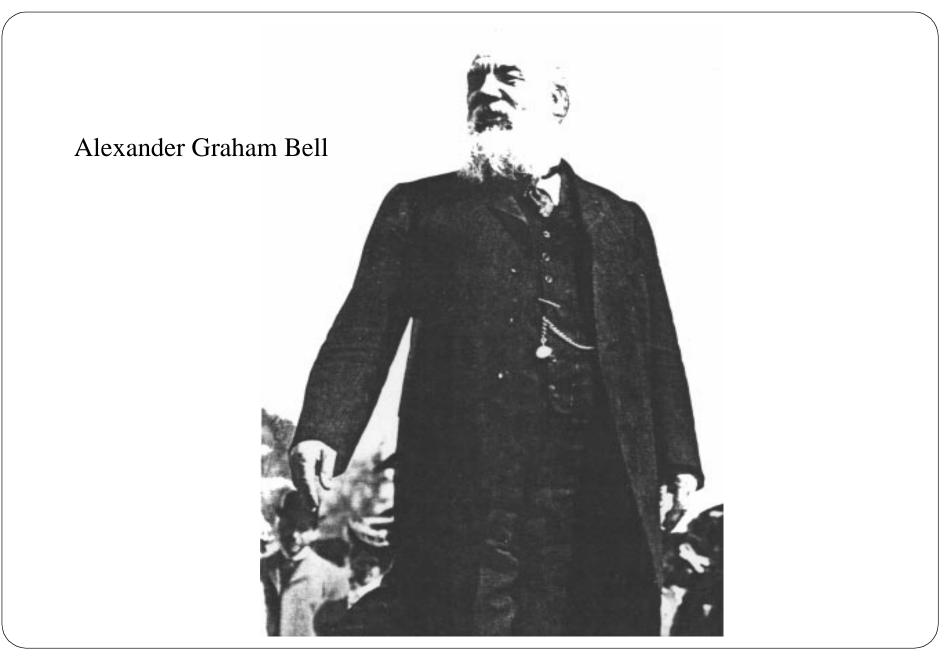
Spring,1999

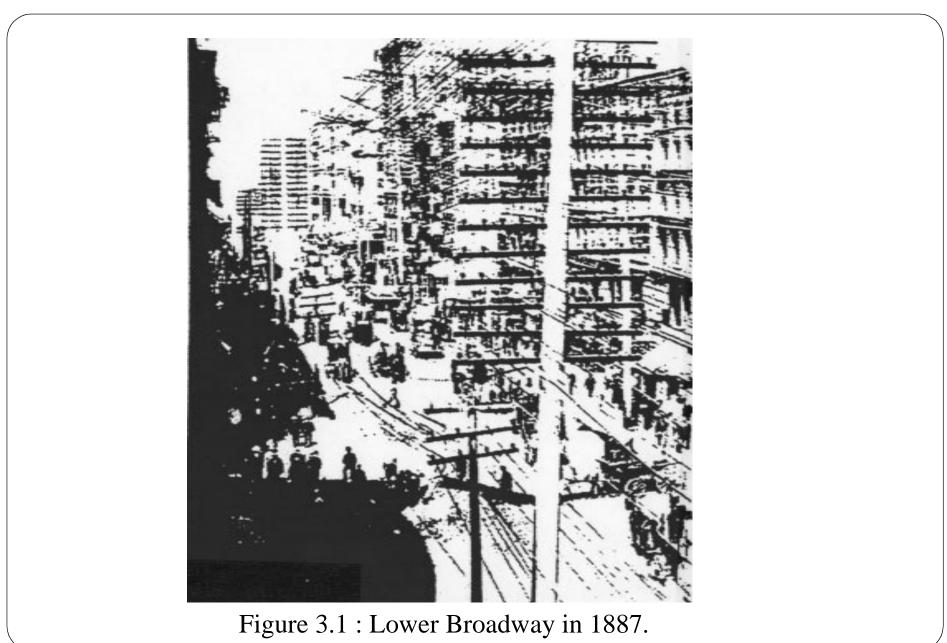
Speech Analysis and Synthesis Overview

## Lecture 3

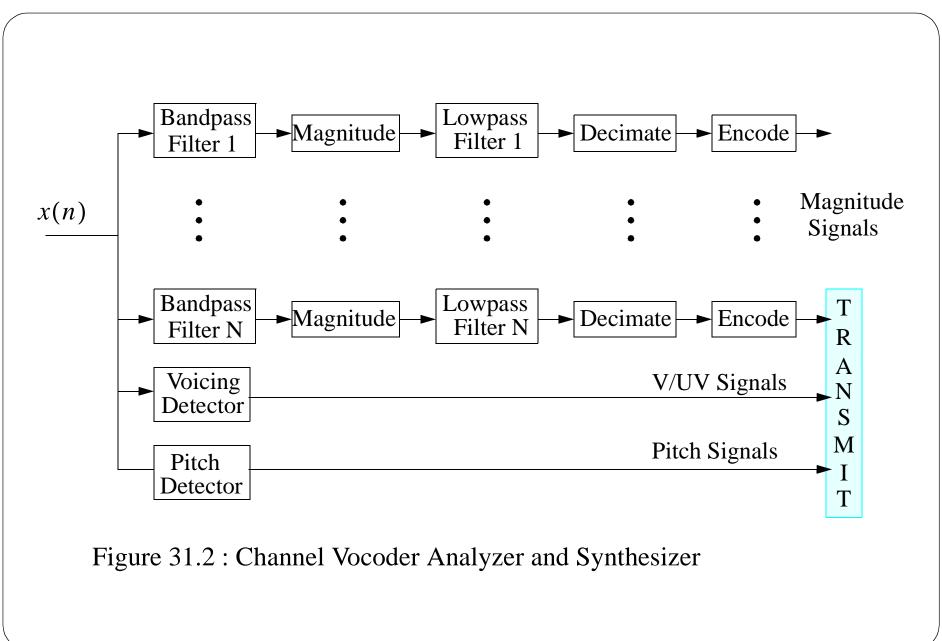


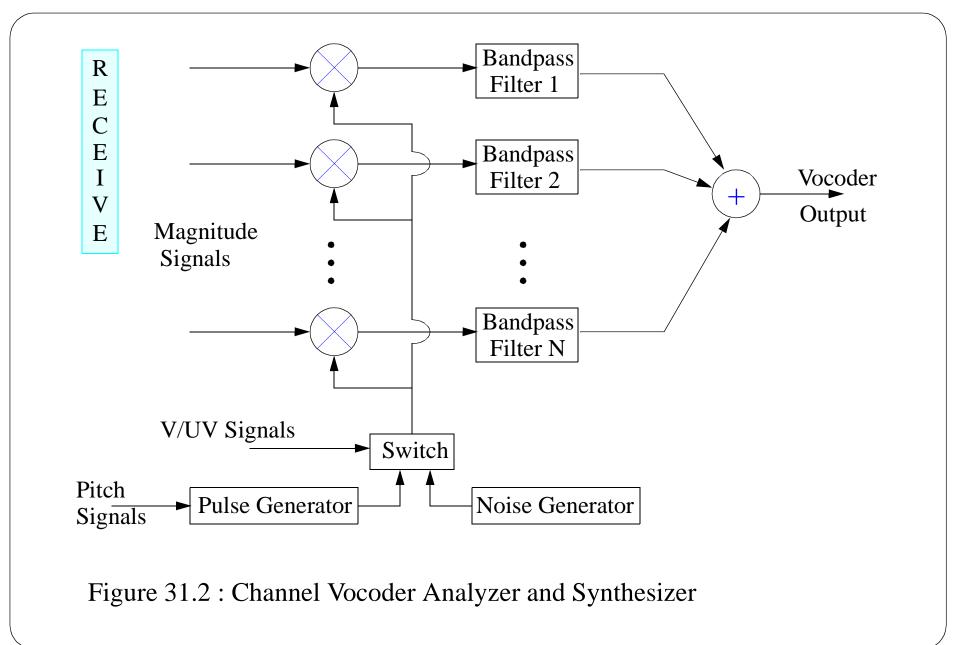
## LECTURE ON SPEECH ANALYSIS AND SYNTHESIS OVERVIEW

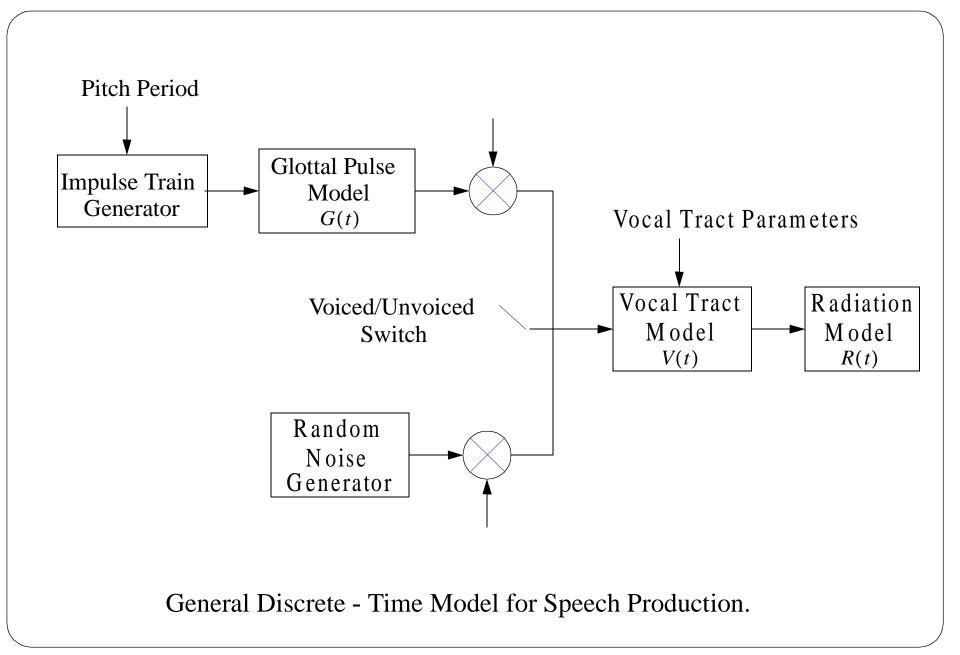


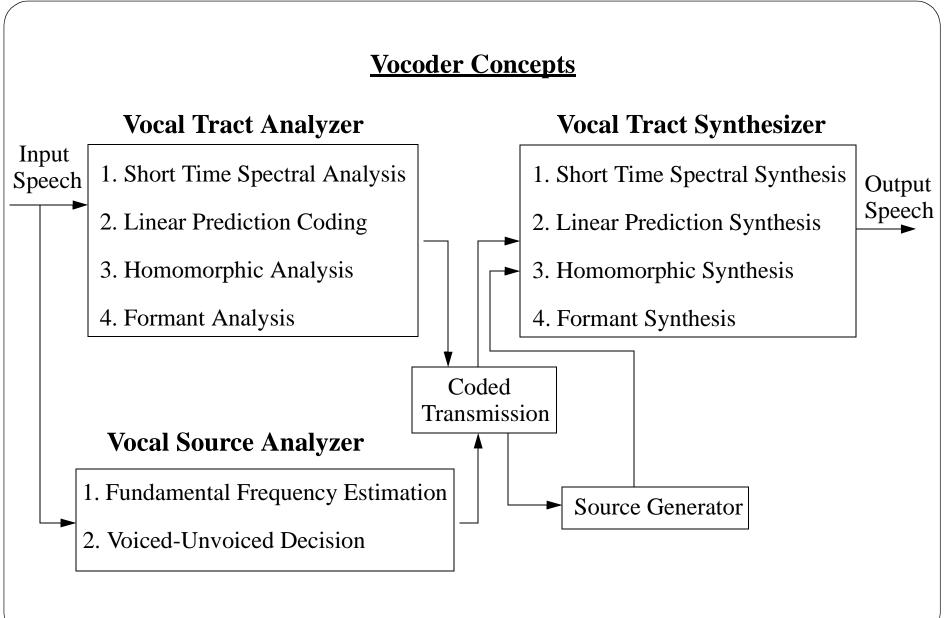


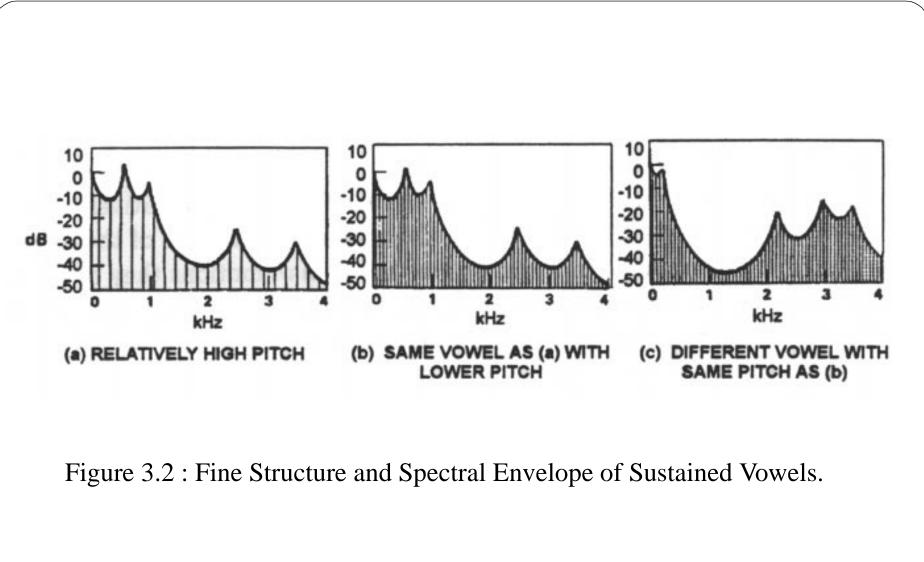
" If I could determine what there is in the very rapidly changing complex speech wave that corresponds to the simple motion of the lips and tongue, if I could then analyze speech for these quantities, I would have a set of speech defining signals that could be handled as low frequency telegraph currents with resulting advantages of secrecy, and more telephone channels in the same frequency space as well as a basic understanding of the carrier nature of speech by which the lip reader interprets speech from simple motions." ——Homer Dudley, 1935



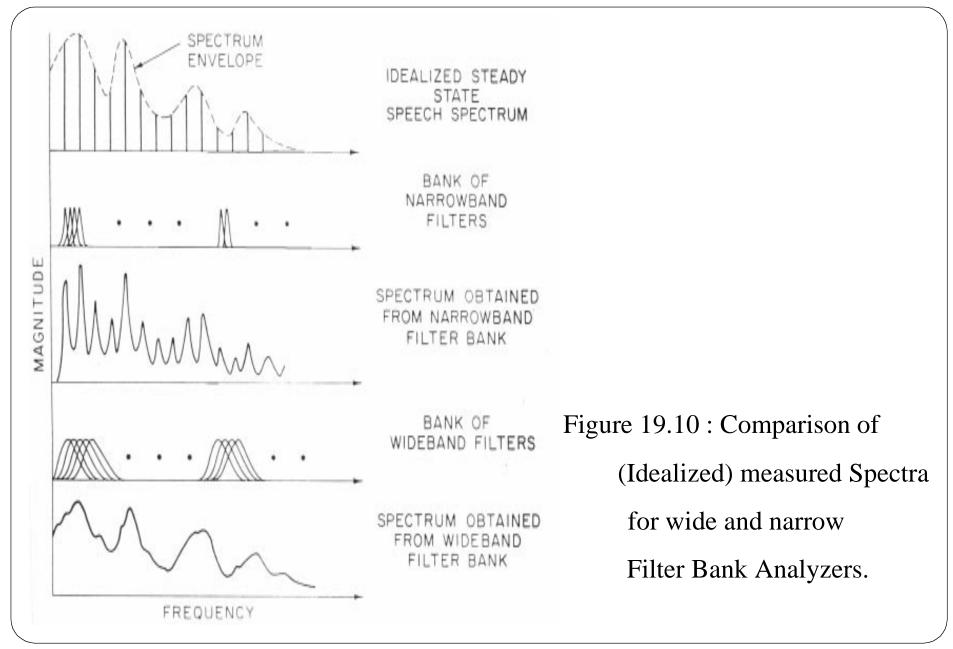


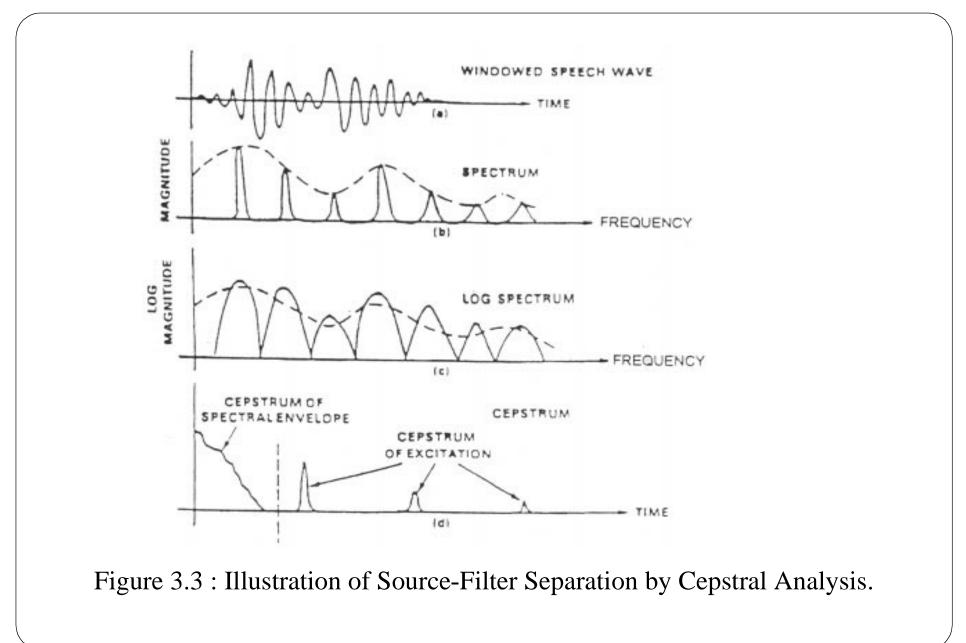


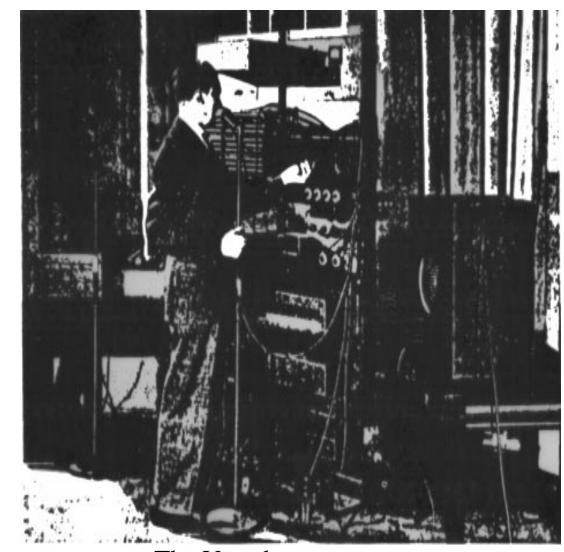




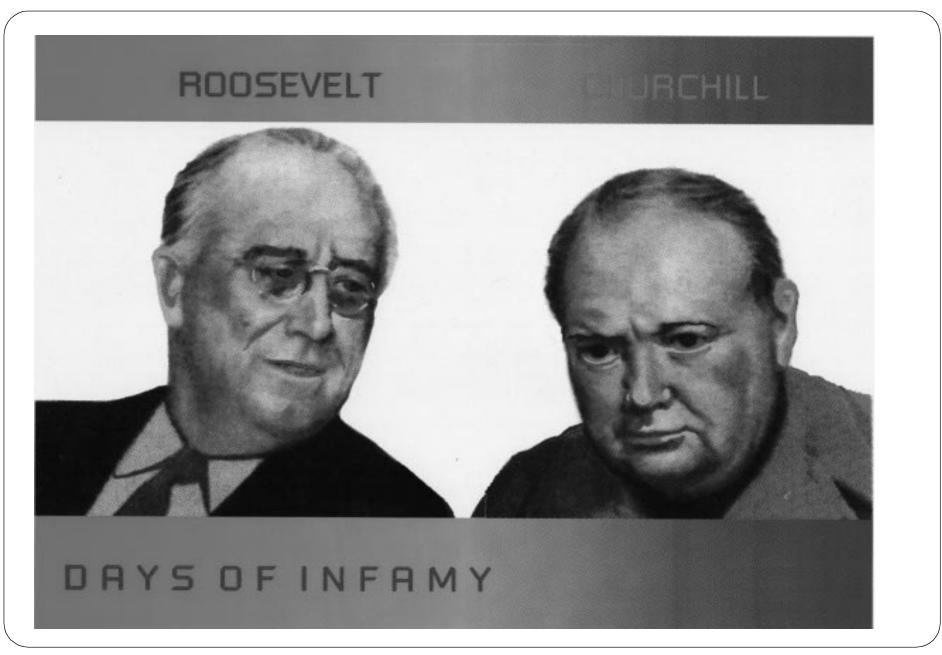
LECTURE ON SPEECH ANALYSIS AND SYNTHESIS OVERVIEW

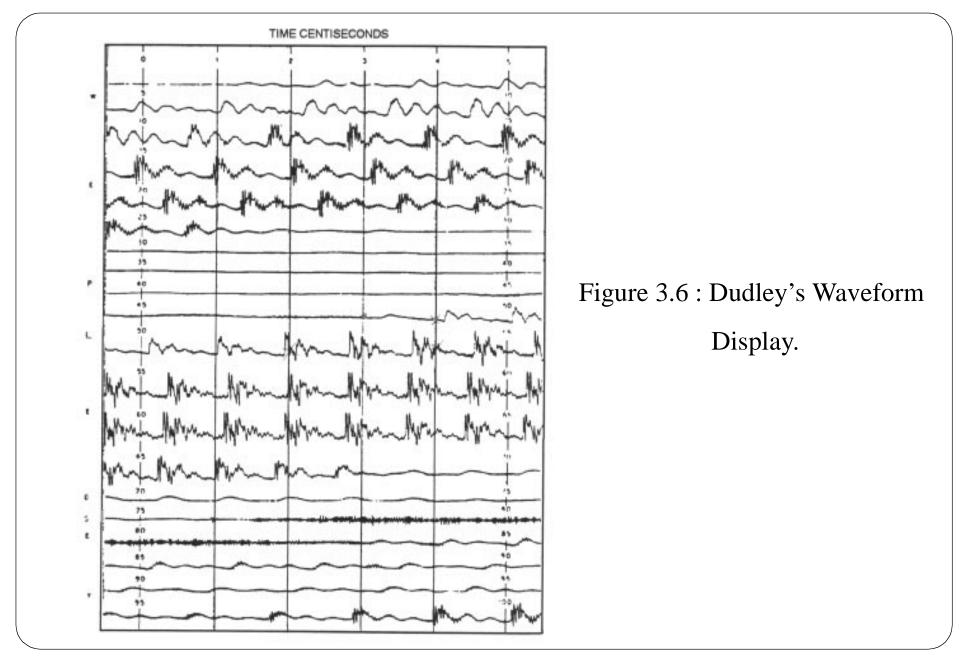


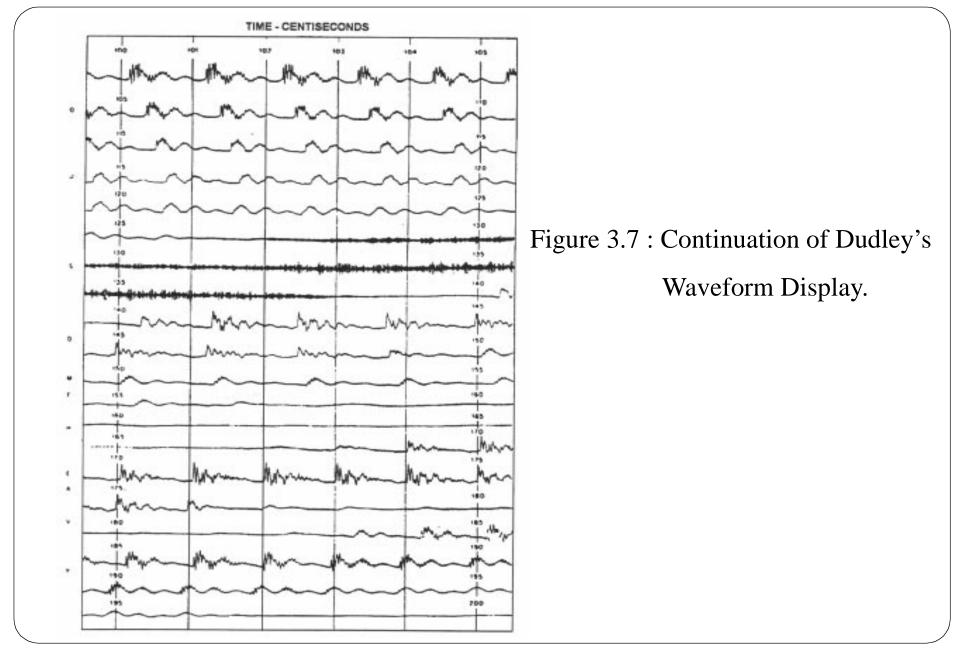




The Vocoder by Homer Dudley, *Circuit Research Department* 







## LECTURE ON SPEECH ANALYSIS AND SYNTHESIS OVERVIEW

