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Contact: Prof. P. C. Pandey
Department of Electrical Engineering,
Indian Institute of Technology Bombay, Powai, Mumbai.
mailto: pcpandey@ee.iitb.ac.in

***Abstract* - This paper presents the results of a study on the effect of altering the consonant-vowel (C/V) intensity ratio on the perception of English stop consonants. The stimuli were consonant-vowel (CV) syllables synthesized using a modified version of the Klatt synthesizer. These were presented to normal hearing listeners under different signal-to-noise ratios (SNR) simulating hearing impairment. The results indicated a noticeable improvement in identification scores, even in the presence of noise, for increased C/V intensity ratio over the unmodified stimuli. This suggests that C/V intensity ratio increment can play an important role in surmounting some of the speech recognition difficulties of impaired listeners.**