

ACS 597

1 of 2

WEDNESDAY, FEB. 5, 2025.

NOTE(S):

SABINE ROOMS. (ACOUSTIC ENCLOSURES).

(1) ABSORPTION COEFF. OF
1 \rightarrow OPEN WINDOW.

(2) MODAL OVERLAP.

DENSITY INCREASES AS
FREQUENCY INCREASES.

(2) LC OPERATIONS.

COMPLEX MODES \rightarrow WORK W/REAL WORLD SITUATIONS.

(3) $L \rightarrow$ EDGES (TOTAL LENGTH).
 $V \rightarrow$ VOLUME
 $S \rightarrow$ SURFACE AREA.

(?) { CIRCULAR MODES
SABINE ROOM -
MILESTONES.

(4)

(5) SPEAKER IN DIFFERENT LOCATIONS \rightarrow CAN NOT DIFFERENTIATE
LISTEN WITH CLOSED
EYES.

MODAL OVERLAP.

TRUE FOR HIGHER FREQS.

- MOST ROOMS.

(8.)

(9.)

6 dB per DISTANCE DOUBLING

(10.)

EXAMPLE - ADD NO TREATMENT.

(11.)

 m^2 or SABINES.

(14.)

MEASURING REVERBERATION TIME, T_{60} IPONE APP.

→ ADD NOISE

TURN OF NOISE

MEASURE TIME.

SHOWN: SABINE EQ.
ON SLIDE.→ SLM. - YES!→ METRIC UNITS.

(15.)

EXAMPLE 2: