

Impulsverhalten von Mikrofonen

Auszug aus: <http://www.aes.org/e-lib/browse.cfm?elib=5094>

Josef W. Manger: "Free-Field Pressure Stepfunction Tests - Acoustic Transformation Chain"

AES Convention 80 - Montreux, March 1986, Paper Number: 2336
E-Library Location: (CD aes11) /pp8690/pp8603/2432.pdf



Ergänzender Anhang zu den Abbildungen in diesem AES-Vortrag. Die anonymen Nummern der Mikrofonbilder sind um die Hersteller- und Typenangaben erweitert.

<http://www.sengpielaudio.com/ImpulsverhaltenVonMikrofonen-Anhang.pdf>



Abbildungen aus diesem Vortrag

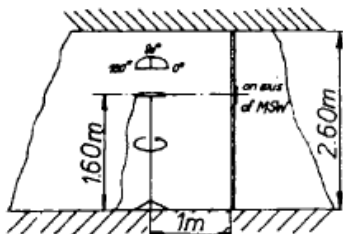


FIG. 7 MIC. HORIZONTAL POSITION AND ROTATION ANGLE

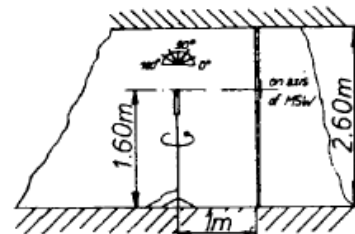
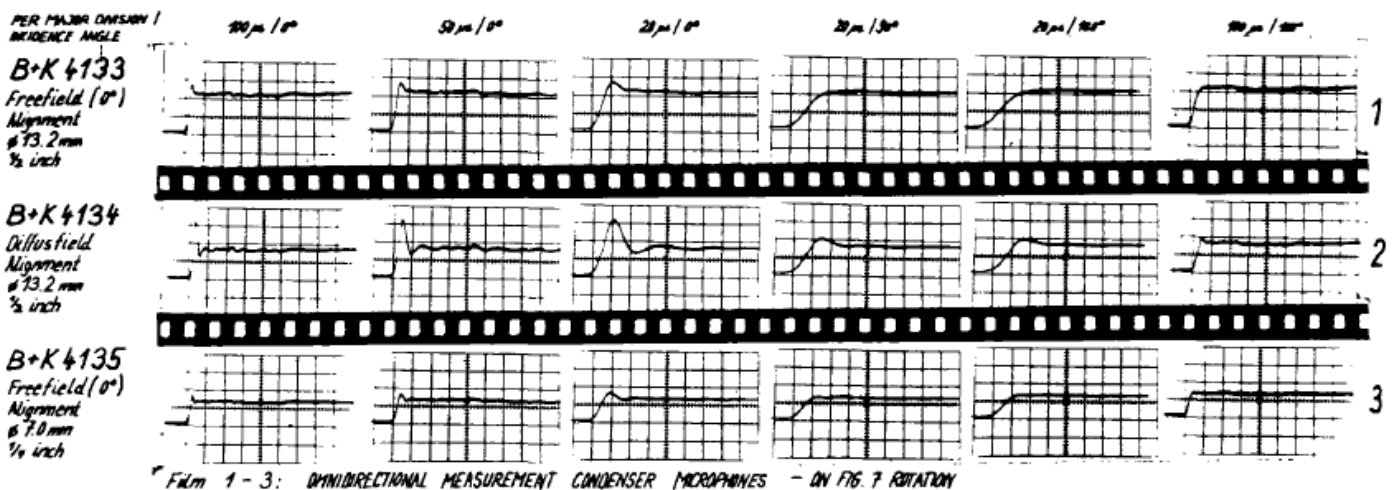
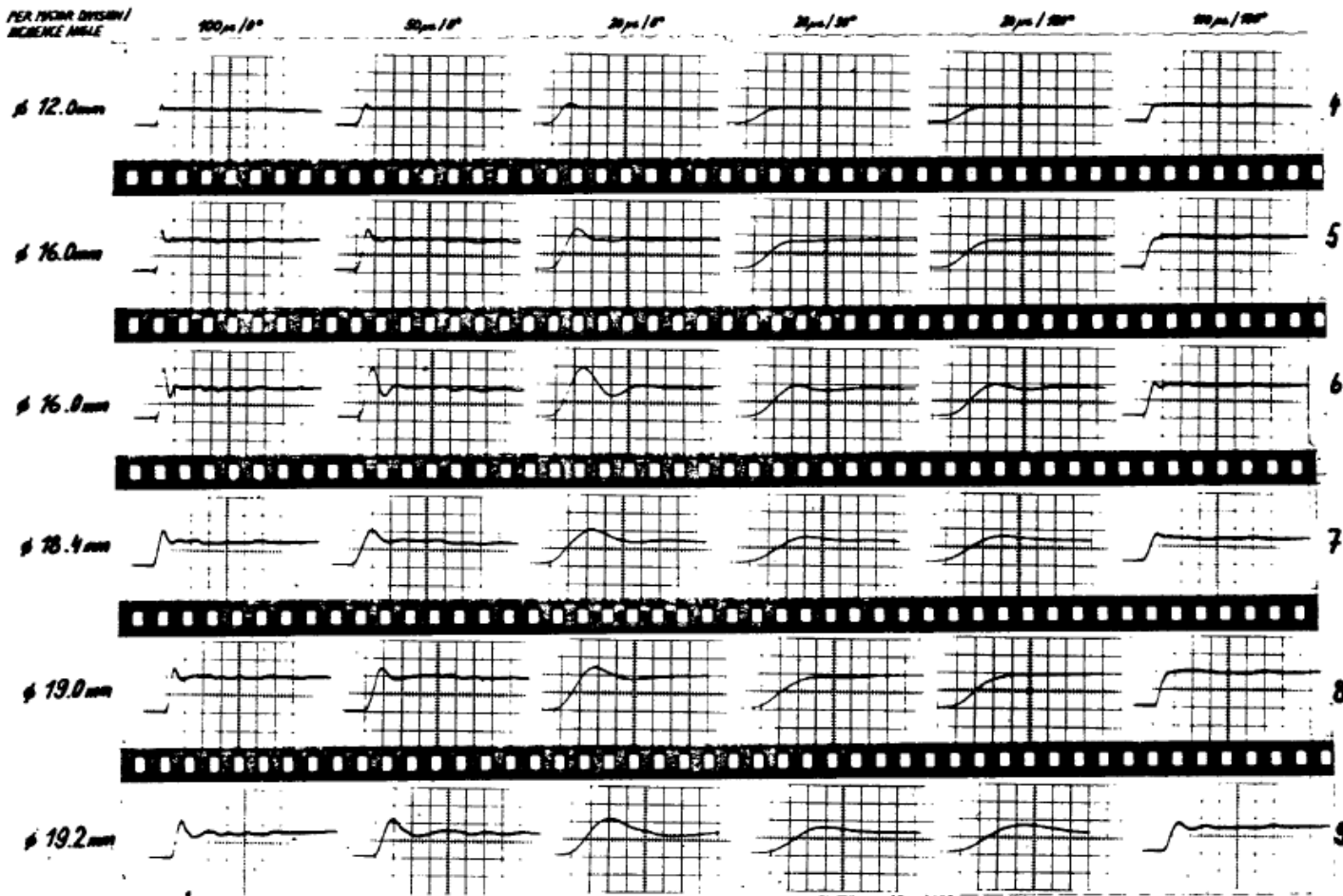


FIG. 8 MIC. UPRIGHT POSITION AND ROTATION ANGLE

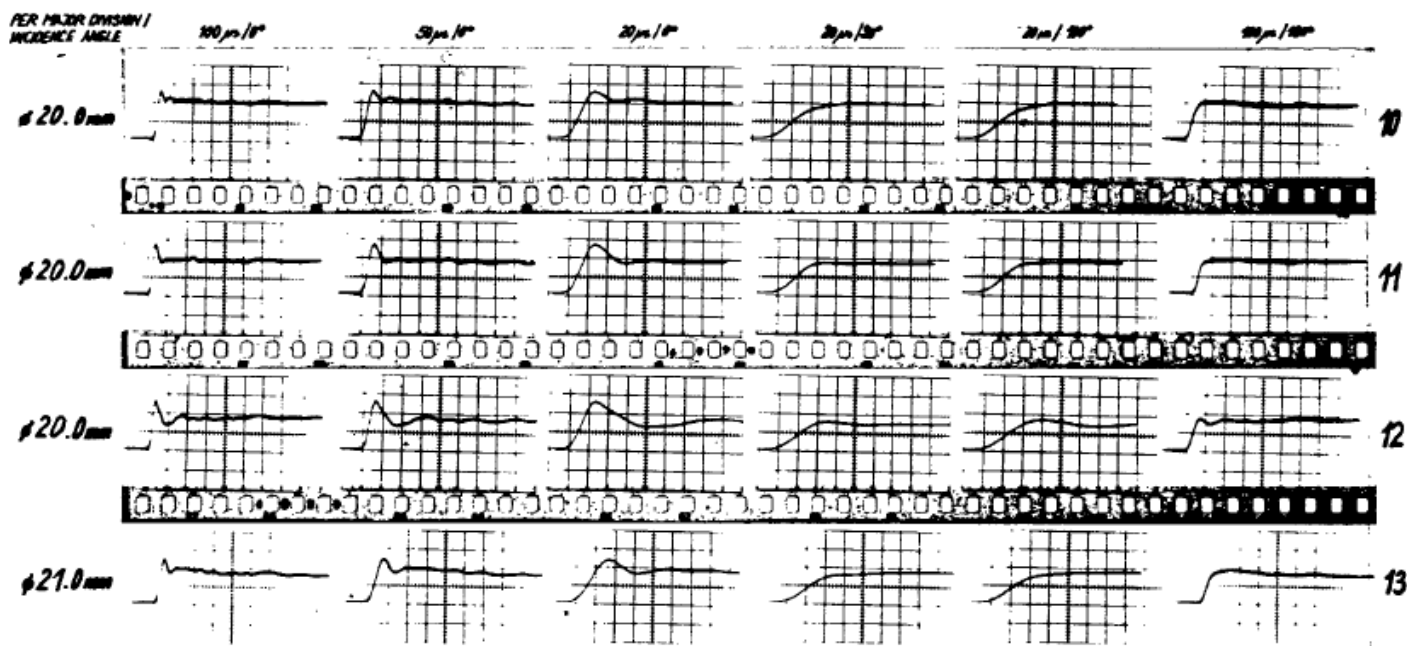


PER MAJOR DIVISION /
INCIDENCE ANGLE



Film 4 - 9: OMNIDIRECTIONAL STUDIO CONDENSER MICROPHONES - ON FIG. 7 ROTATION

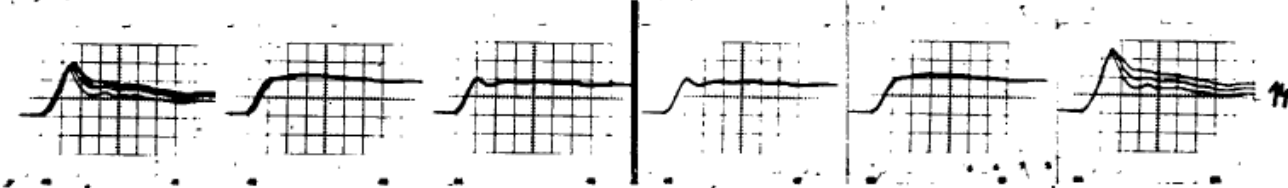
PER MAJOR DIVISION /
INCIDENCE ANGLE



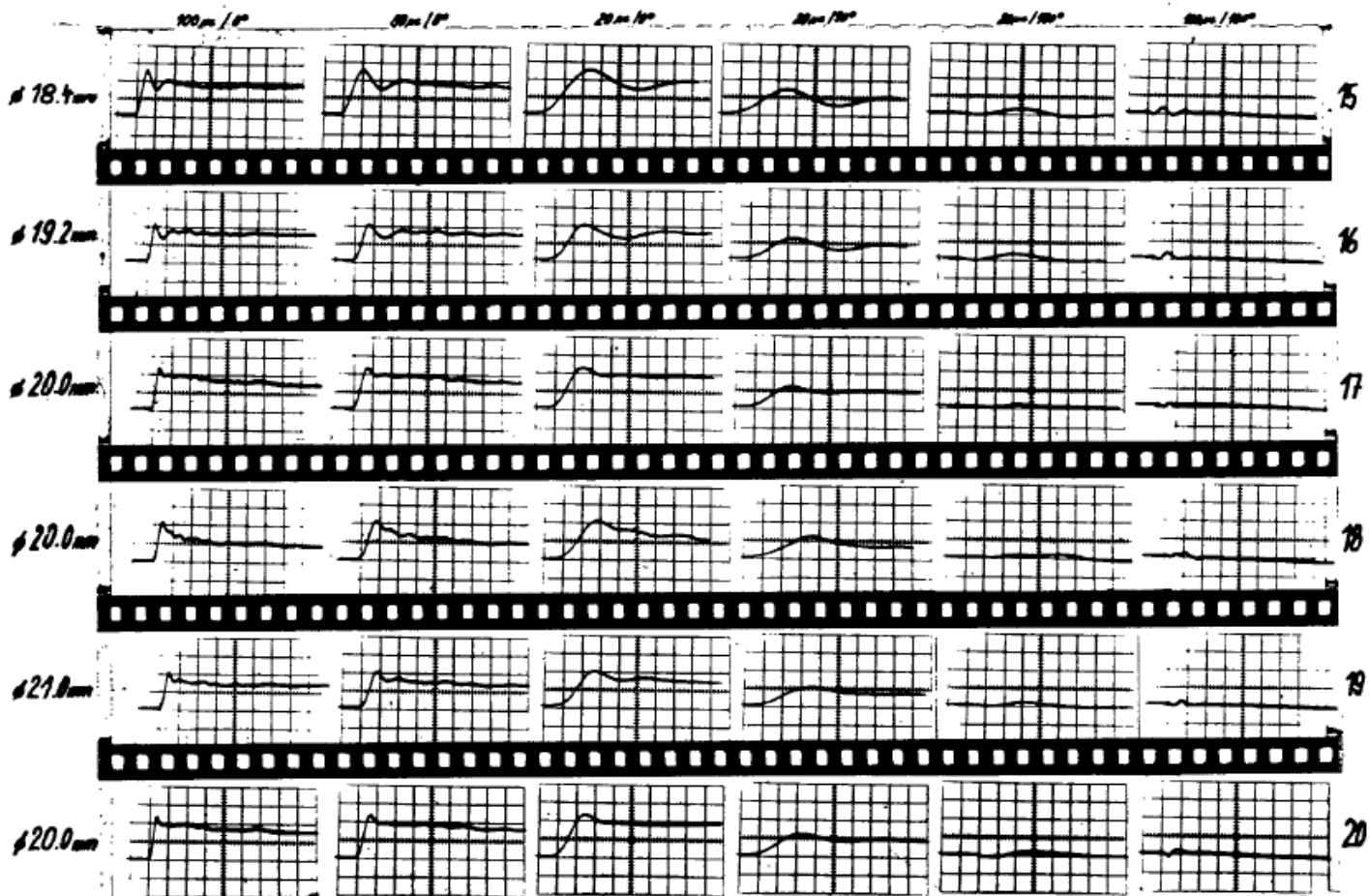
Film 10 - 13: OMNIDIRECTIONAL STUDIO CONDENSER MICROPHONES - ON FIG. 7 ROTATION

50 μ s / 6 lines 30°

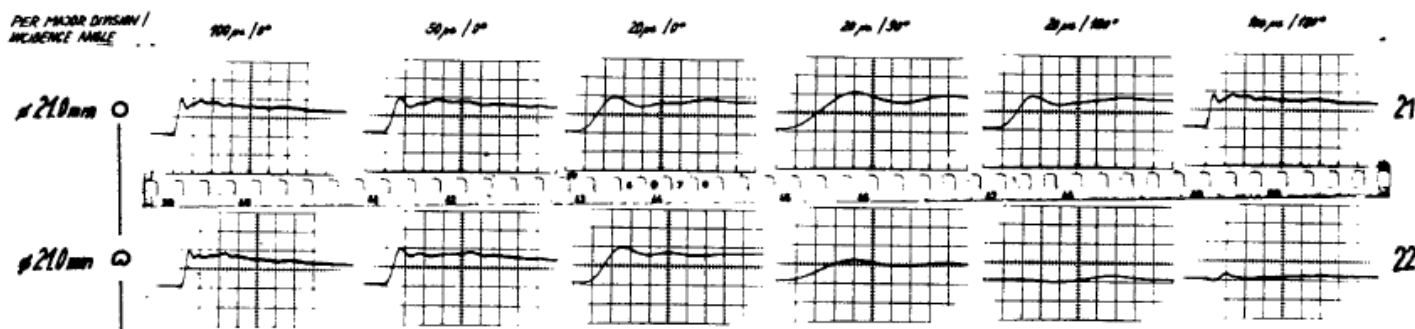
50 μ s / 3 lines 30°



Film 14: THREE DIFFERENT MICROPHONES F 18, 5, 12 - ON FIG. 8 ROTATION (left: ± 1 mm ECCENTRIC; right: ≈ 0 mm)

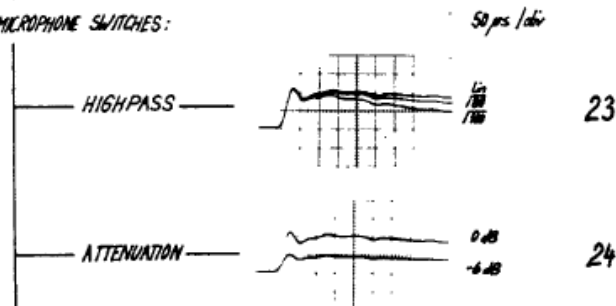


Film 15 - 20 : CARBONIDE STUDIO MICROPHONES - IN FIG. 7 ROTATION



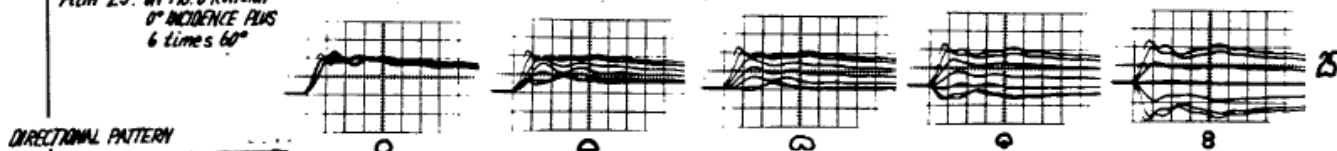
Film 21 - 22 : IN FIG. 8 ROTATION , Picture SEQUENCE as F 1 - F 20 on the DIRECTIONAL PATTERN

Three MICROPHONE SWITCHES:



Film 21-25: UNIDIRECTIONAL CONDENSER MICROPHONE DUAL DIAPHRAGM TYPE THREE BUILD-IN SWITCHES

Film 25: IN FIG. 8 ROTATION
0° INCIDENCE PLUS
6 times 60°



PER MICRO DIVISION

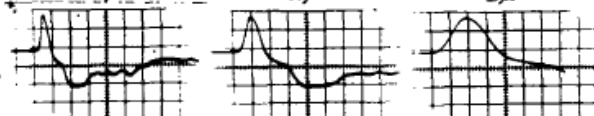
100 μ s

50 μ s

20 μ s

F26-28

2-WAY
LOUDSPEAKER

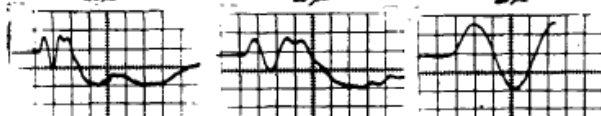


26

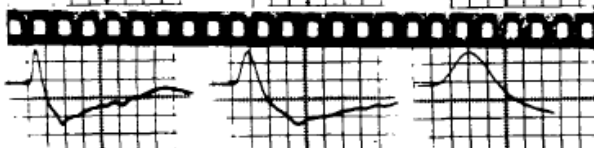
100 μ s

50 μ s

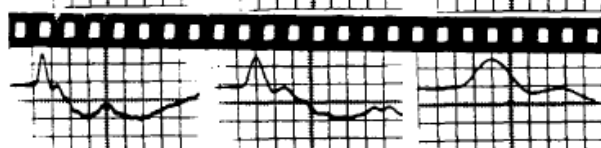
20 μ s



32



27



33

MC-POSITION

ON AXIS OF

TW-TWEETER

MR-MIDRANGE

WD-WOOFER

INPUT -

STEPFUNCTION

MEASUREMENT

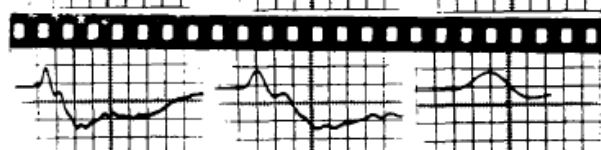
MC NO. 3

MC. 1m

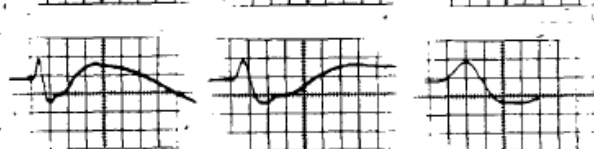
DISTANCE



28



34



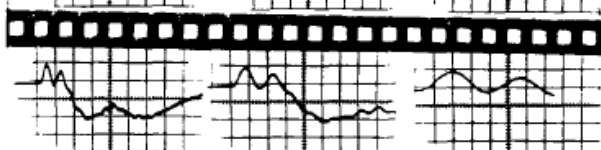
29



35



30



36

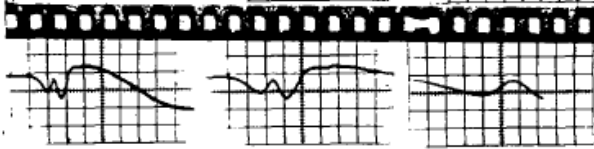
F29-31

F32-37

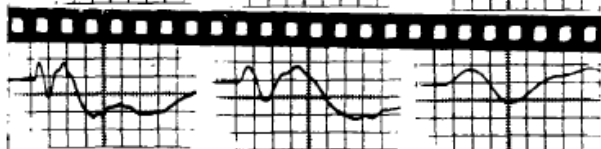
(diff. Brand)

3-WAY

LOUDSPEAKER



31



37