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Cover image
Theoretical calculation of the acoustic field amplitude from a downstream point source in a subsonic jet obeying Lilley's equation. The amplitude is plotted as a function of polar (vertical) and azimuthal (horizontal) angles as it intersects a far-field p-constant sphere, centred on the point source. The red lines locate the maxima (near peaks of amplitude) of an associated ray approach. The blue shape indicates a previously unknown downstream bowing of peak noise. The theory suggests that the peak amplitude of the novel upstream bowing is of comparable magnitude to that of the maximum downstream noise (separated red lines) that is usually measured in noise control tests.

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