

근거리 및 원거리에서의  
Lowson Formula에 대한 연구

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Study of Lowson Formula at near- and far-field

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ABSTRACT

This paper reviews the Lowson formula which predicts the sound field of a point force in arbitrary motion. The acoustic density was represented by an integral of integrand including the generalized function and its partial derivative at retarded time. After skillful integration, a mathematically exact formula was yielded with some terms which were still remained in need of numerical calculations. The significance of further mathematical progress is discussed in this paper. And also, the adequacy of procedures deriving the far- and near-field terms is investigated from the viewpoint of radiation.

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