

Accepted Manuscript

Computational performance of analytical methods for the acoustic modelling of automotive exhaust devices incorporating monoliths

F.D. Denia, J. Martínez-casas, J. Carballeira, E. Nadal, F.J. Fuenmayor

PII: S0377-0427(17)30129-2

DOI: <http://dx.doi.org/10.1016/j.cam.2017.03.010>

Reference: CAM 11057

To appear in: *Journal of Computational and Applied Mathematics*

Received date: 29 November 2016

Revised date: 28 February 2017

Please cite this article as: F.D. Denia, J. Martínez-casas, J. Carballeira, E. Nadal, F.J. Fuenmayor, Computational performance of analytical methods for the acoustic modelling of automotive exhaust devices incorporating monoliths, *Journal of Computational and Applied Mathematics* (2017), <http://dx.doi.org/10.1016/j.cam.2017.03.010>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



HIGHLIGHTS

Analytical modelling techniques are proposed to speed up transmission loss calculations in exhaust devices incorporating monoliths.

Multidimensional sound propagation in the expansion and contraction regions is combined with one-dimensional waves in the monolith capillary ducts.

The performance of the point collocation technique and the mode matching method is compared in terms of computational effort and accuracy.

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات