

## عنوان مقاله:

Numerical simulation of two-dimensional separated gas microflow using a generalized slip odel

## محل انتشار:

نخستین کنگره بین المللی نانوفناوری و کاربردهای آن در صنایع نفت، گاز و پتروشیمی (سال: ۱۳۸۵)

تعداد صفحات اصل مقاله: ۱۱

## نویسندگان:

Raisee - Department of Mechanical Engineering, University of Tehran

Vahedi - Department of Mechanical Engineering, University of Tehran

## خلاصه مقاله:

Rarefied gas flows in channels, pipes, and ducts with smooth surfaces are studied in a wide range of Knudsen number (Kn) at low Mach number (M) with the objective of developing simple, physics-based models. Such flows are encountered in microelectromechanical systems (MEMS), in nanotechnology applications, in micro and nano gas filtration and in low-pressure environments such as vacuum industry. For the flows with  $0.01 < Kn < 10$

## کلمات کلیدی:

rarefied gas flows, Knudsen number, slip flow, backward-facing step

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/۲۲۰۴۳>