



## Increasing calculation accuracy in the design stage of a gas transportation system

Sorin NEACȘU and Renata RĂDULESCU\*

*Department of Drilling, Extraction and Transport of Hydrocarbons, Petroleum - Gas University of Ploiesti,  
Bld. Bucharest, no.39, Ploiesti, Prahova County, Romania*

---

**Abstract** The paper presents a critical evaluation of the equations used to calculate the flow and pressure for transport pipelines. A highly accurate method for calculating gas parameters is proposed. The final part of the paper presents some comparisons between the proposed method and modern simulators used for the design of transport systems.

*Keywords.* Gas, transport, capacity

---