

LIQUID DISTRIBUTION IN A CONFINED SYSTEM  
SUBJECTED TO A NONUNIFORM  
POTENTIAL

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S u m m a r y

We calculate the density distribution profile of a spatially confined liquid system with cylindrical geometry under the action of a wall potential nonuniform along the cylinder axis. The problem is solved in the general case where the system is subjected to the action of an external field with radial symmetry. We also analyze a particular case of the wall potential of a special kind and perform numerical calculations.