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| Title | Numerical Computation of Natural Ventilation System at Different Floor for A Multistory Building | | |
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| Abstract |  |
| Dhaka city of Bangladesh has its humble start as a city in 17th century, after the emergence of independent Bangladesh in1971. Natural ventilation system at different floor of a eight storied building is discussed in this study numerically. Mass flow analysis are discussed using velocity vector, and velocity contour. The k − ε turbulence model is used for the computation of nature of the air flow at different height. ANSYS CFX software is used to solve the governing equations. Model is also validated by comparing the result with an experimental result published previously. Bangladesh national building code is applied for modeling the building. Ventilation rate for acceptable indoor air quality is assured by comparing the result with ANSI/ASHRAE Standard 62.1-2004. | |