| Full Paper  | Thematic Section: Chemical Technology.        |
|---|---|
| Registration Code of Publication: 11-27-13-76   | Subsection: Calculation of Process Equipment. |
| Publication is available for discussion in the framework of on-line conference "Butlerov readings". |   |
| http://butlerov.com/readings/   |   |
| Contributed to editorial board: March 3, 2011   |   |

Subject area: Cooling of circulating water of industrial enterprises. Part 1.

## Method of efficiency assessment for sprinklers of industrial cooling towers

© Sergey P. Ivanov, 1\* Nikolay S. Shulaev, 2 and Ewgeny V. Boev 1+

<sup>1</sup> Chair «Equipment of Petrochemical Factories». Branch of SEI HPE «Ufa State oil Technical University» in Sterlitamak. October St., 2. Sterlitamak, 453118. Bashkortostan. E-mail: boev\_UGNTU@fromru.com

<sup>2</sup> Chair «Information Science, Mathematics, Physics». Branch of SEI HPE «Ufa State oil Technical University» in Sterlitamak. October St., 2. Sterlitamak, 453118. Bashkortostan. Fax: +7 (3473) 24-24-08.

**Keywords:** recycling water supply, cooling tower, sprinkler, heat-mass exchange.

## **Abstract**

An integral part of any industrial production is the recycling water supply system, aimed to provide a low-grade heat rejection from the processing equipment into environment through, as a rule, air coolers – cooling towers. Various constructions of sprinklers in the cooling tower are applied to provide a required phase contact area.

<sup>\*</sup>Supervising author; \*Corresponding author