

Dr. Vivek S. Sathe

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Designation: Professor

Type of appointment: Regular

Educational profile:

BE: Chemical Engineering, Pune University

M. Tech.: Chemical Engineering, Indian Institute of Technology (IIT) Bombay, Powai.

PhD: Chemical Engineering, Indian Institute of Technology (IIT), Madras

Research interest: Relay-based controller design,

Process optimization

Modeling and simulations

Most recently taught subjects:

UG: Process dynamics and control

Optimization techniques

Selected Publications:

1. Manik P. Deosarkar, Vivek S. Sathe and Kartik Chandra Ghanta,(2010) “CD- NRep Relationship for Solid-Liquid Suspensions,” International Journal of Chemical Engineering and Applications vol. 1, no. 1, pp. 10-14, 2010
2. Sathe Vivek and M. Chidambaram (2006) A simple method of tuning parallel cascade controller, Indian Chemical Engineering Vol. 48 No. 4 October-December 2006, pp. 262-269
3. Sathe Vivek and M. Chidambaram (2005) An improved relay autotuning of PID controllers for unstable FOPTD systems, Computers and Chemical Engineering, 29, 2060-2068, (impact factor 2.235)
4. E. Sivakumar, Sathe Vivek and M. Chidambaram (2005) Improved saturation relay test for systems with large dead time, Ind. Eng. Chem. Res., 44, 2183-2190 (impact factor 2.071)
5. Sathe Vivek and M. Chidambaram (2005) Identification using single symmetrical relay feedback test, Computers and Chemical Engineering, 29, 1625-1630, (impact factor 2.235)