

Ashutosh Patel

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EDUCATIONAL QUALIFICATIONS

Ph. D. in Chemical Technology

Pursuing Ph. D. in Chemical Engineering at Institute of Chemical Technology, University of Mumbai since October 2002. I am working on the project titled as “**Design of Multiphase Reactors: Radioisotopes Application for Troubleshooting and Process Optimization in Chemical Industry**” funded by Department of Atomic Energy.

Research for PhD

- ◆ Detailed study of multiphase systems such as bubble columns with and without internals; fluidized bed dryers, packed columns; ejectors; stirred tank reactors etc.
- ◆ Development of the image reconstruction methodology to estimate phase distribution across the measured cross section of multiphase reactors using gamma ray tomography.
- ◆ Development of models and methodology for the interpretation of image to identify the problems in reactors.
- ◆ Gamma ray tomography of industrial scale multiphase systems.

Master of Environmental Engineering (April, 2002)

Institute of Science & Technology for Advanced Studies & Research (ISTAR), Sardar Patel University, Vallabh Vidyanagar, Gujarat, India

Distinction (9.33 out of 10)

Bachelor of Chemical Engineering (July, 2000)

G.H.Patel Collage of Engineering & Technology (GCET), Sardar Patel University, Vallabh Vidyanagar, Gujarat, India

Distinction (72.63 %) / (8.02 out of 10)

PUBLICATIONS

1. **Patel, A. K.** and Patwardhan, A. W. and Thorat, B. N., 2006, Comparison of ML-EM Algorithm and ART for Reconstruction of Gas Hold-up Profile in a Bubble Column, Chemical Engineering Journal - Special Issue on Industrial Process Tomography, Accepted for publication.
2. **Patel, A. K.** and Thorat, B. N., Pressure Drop and Fractional Gas Hold-up in Bubble Column Using Fabric Cloth Mounted Perforated Plate Sparger, Submitted to Industrial & Engineering Chemistry Research.
3. Thorat, B. N., **Patel, A. K.**, Waje, S. S., Mujumdar, A. S., Recent Advances in Fluid Bed Drying, Keynote Lecture at 15th International Drying Symposium, Budapest, Hungary, 20-23 August 2006.
4. Prof. K. N. Sheth & **Ashutosh K. Patel**, Comparative Study of Removal of Reactive Dyes with PAC and Adsorbent Prepared by Impregnating Corn Cob and Saw Dust, Journal of Engineering and Technology, 21-28, July 2002.
5. Dr. B. P. Swadas, Prof. K. N. Sheth & **Ashutosh K. Patel**, Kinetic Equilibrium Studies for Removal of Reactive Dyes using Impregnated Ecofriendly Adsorbents, Journal of Engineering and Technology, 7-15, July 2002.