

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berdasarkan penelitian *control structure* pada kolom distilasi reaktif dalam produksi DME, dapat disimpulkan bahwa:

1. Terdapat interaksi antara variabel pada *controller* di temperatur tahap 5 dengan variabel pada *controller* di temperatur tahap 47
2. *One-point control configuration* dapat mengendalikan kemurnian DME
3. *Two-point control configuration* dikembangkan untuk mengendalikan kemurnian DME dan konversi methanol
4. *Two-point control configuration* memiliki kinerja yang lebih baik pada uji *set-point tracking* dan uji *disturbance rejection*

5.2 Saran

Saran pada penelitian *control structure* pada kolom distilasi reaktif dalam produksi DME adalah:

1. Dapat dilakukan peningkatan kinerja *controller* dengan menggunakan jenis *controller* yang lebih *advance*, seperti *MPC controller*.
2. Perlu dilakukan simulasi *one-point control configuration* dan *two-point control configuration* menggunakan parameter *controller* yang berbeda.

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