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| **Criteria** | **Points** | **Description** | **Points Earned** |
| **Clarity and Cohesion (30 pts)** | | | |
| Organization | 10 | Clear structure and flow of the report, with sections logically arranged. Each question addressed in a clear manner or clearly marked within the report. |  |
| Introduction | 5 | Clear introduction that outlines the purpose and objectives of the assignment. Provides context for the chemical reactor/separator systems being analyzed. |  |
| Explanation of Results | 10 | Clear and concise explanation of simulation results. Demonstrates understanding of observed behaviors and differences between cases. |  |
| **Technical Correctness (40 pts)** | | | |
| Mathematical Analysis | 15 | Accurate derivation and representation of transfer functions for both cases. Correct application of control theory concepts. |  |
| Python Implementation | 10 | Correct implementation of simulation and plotting using Python. Code is well-commented and organized. |  |
| Comparison of Parameters | 15 | Accurate comparison of key parameters between theoretical and simulation results. Demonstrates understanding of how parameters affect system dynamics. |  |
| **Quality of Report Presentation (30 pts)** | | | |
| Writing Style | 10 | Clear and concise writing style, free from grammatical errors. Proper use of technical terminology and language. |  |
| Figures and Tables | 10 | Figures are well-integrated into the report and effectively support the analysis. Tables are appropriately formatted and labeled. |  |
| Formatting and Layout | 10 | Consistent formatting throughout the report (font, size, spacing, etc). Adequate use of headings, subheadings, bullet points for clarity. |  |
| **Total** | 100 |  |  |

**CHE322 – Project Part 1 Grading Rubric**