**Varying Column Pressure**

|  |  |
| --- | --- |
|  | **(K5.1)** |
|  | **(K5.4)** |
|  | **(K5.9)** |
| **(K5.9) reduces with ideal gas law to**  OR | **(K5.9)**  **(F3)** |
| **Mass transfer rates** | **(K5)**  **(F10)** |
| **Adsorption Equilibrium** | **(K6)**  **(F11)** |
|  |  |
|  |  |

**PDE Setup**

|  |  |
| --- | --- |
| Unknowns: | **(S1)**  **(S2)**  **(S3)**  **(S4)**  **(S5)**  **(S6)**  **(S7)**  **(S8)** |

**ODE Setup**

|  |  |
| --- | --- |
| Unknowns:  Inputs: | **(S1)**  **(S2)**  **(S3)**  **(S4)**  **(S5)**  **(S6)**  **(S7)**  **(S8)** |