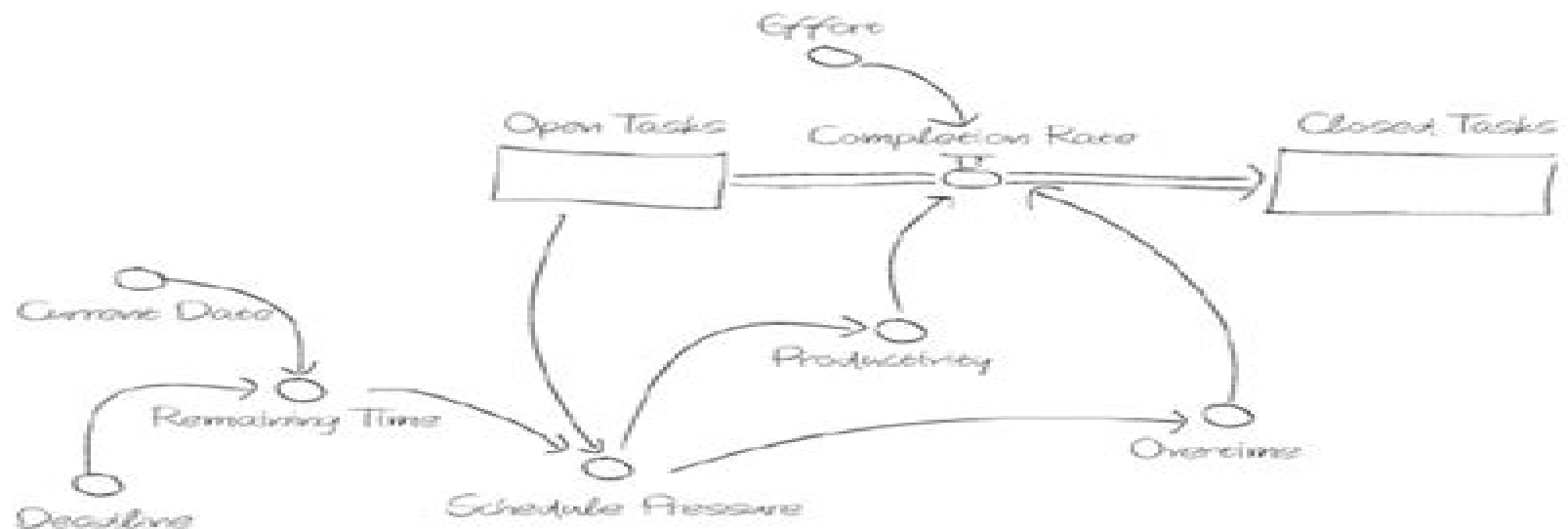


## System Dynamics Simulation

In this section, we will create a simulation model based on the stock and flow diagram we developed in the previous section on [stock and flow diagrams](#). For ease of reference, we have included the diagram here:



As noted in the [previous section](#), this stock and flow diagram is just a visual notation for a mathematical model of the system that can be used to simulate the system's behavior using computer software. In these mathematical models, stocks and flows are represented by integral equations, converters are represented by functions of their input and/or time. In most cases, these integral equations cannot be solved analytically but instead are approximated using numerical integration.

# Elements Of System Dynamics Simulation

**Forbes T. Brown**



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