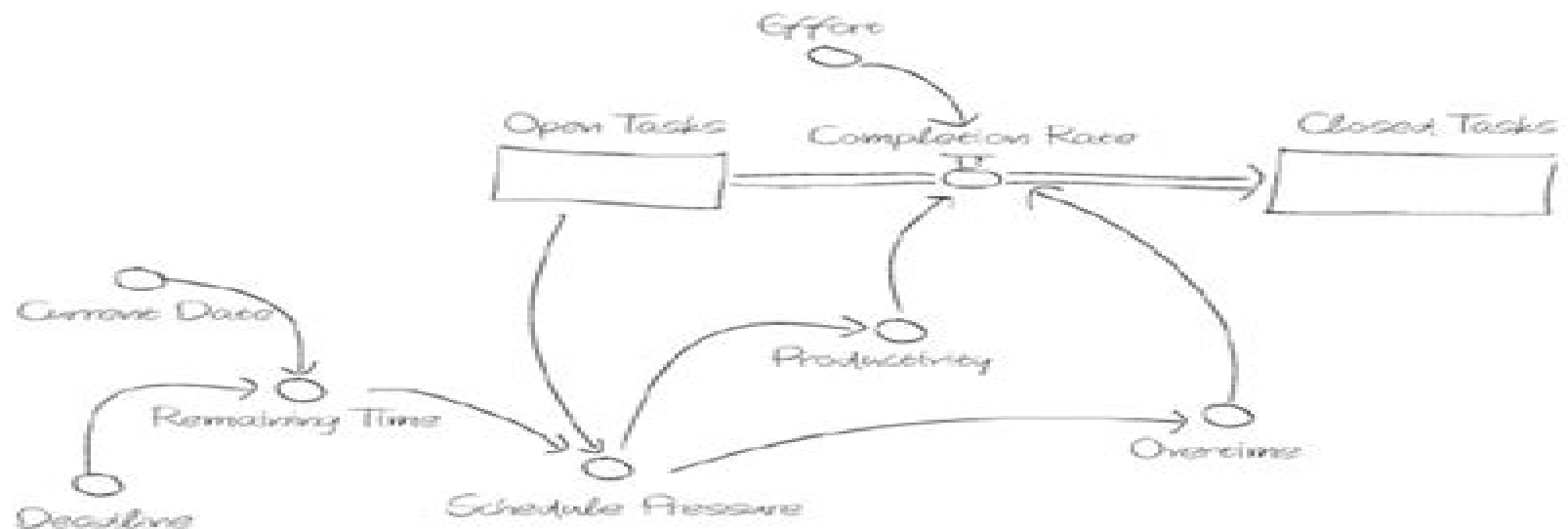


System Dynamics Simulation

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

Guillaume Favre

A decorative red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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Elements of System-dynamics Simulation Th J. Ferrari, 1978 This book assumes that the reader does not have much knowledge of mathematics Therefore the essentials of the necessary mathematics is gradually introduced It emphasizes the practical applications of the system dynamics concept by providing working problems and solutions Experience shows that the concepts and principles of system dynamics are fairly easy to learn but are difficult to convert into the language of system dynamics Examples and problems are taken from different disciplines like physics chemistry process control biology ecology hydrology environmental health science economics social science etc The problems are so treated that readers from other disciplines can solve them with system dynamics The advantage of this approach is that the reader becomes aware of the way problems from various disciplines can be described and explained analogously This is important for an interdisciplinary approach to the problems

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