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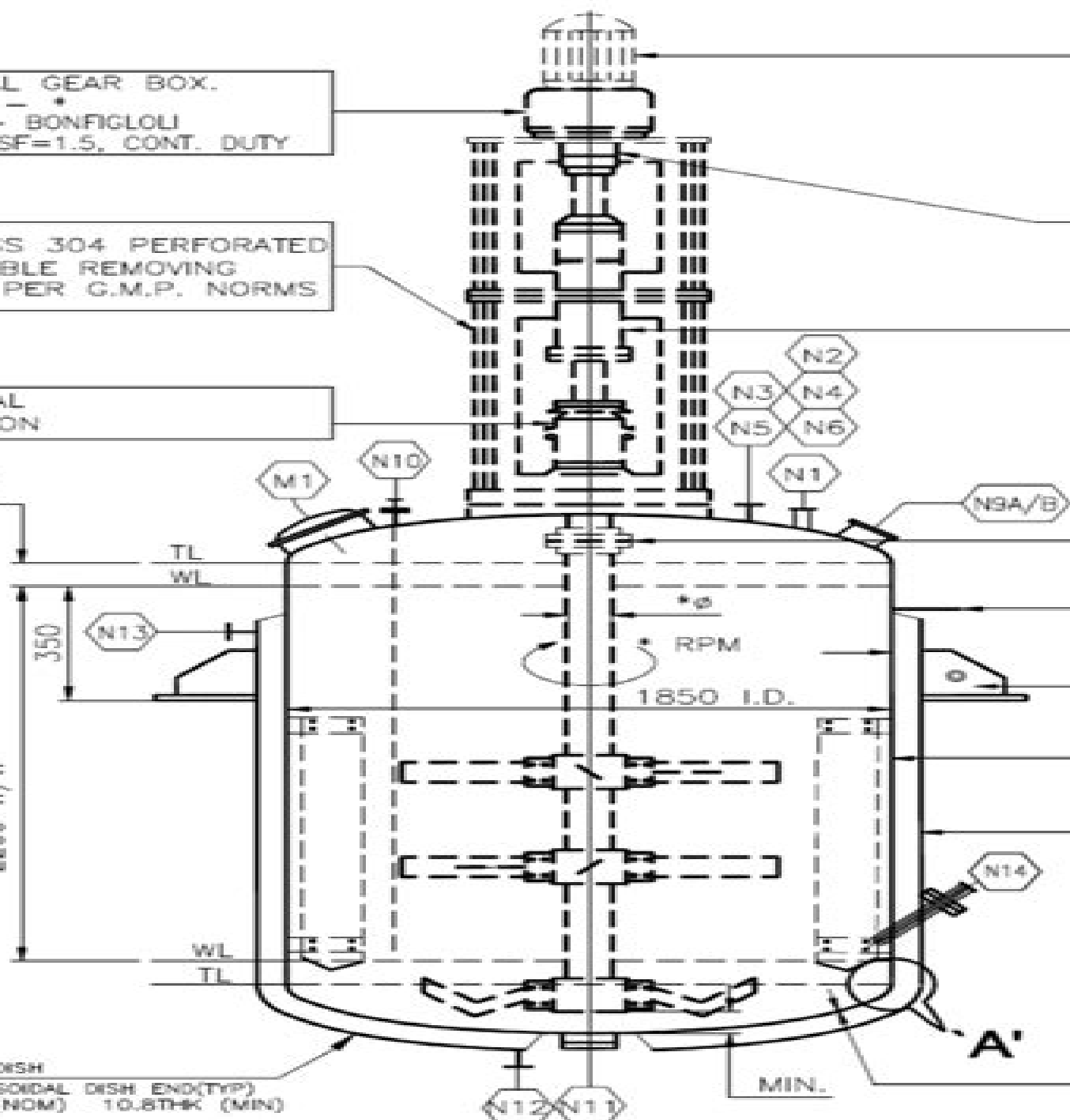
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Reactor Design For Chemical Engineers

Charles G. Hill, Thatcher W. Root



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like Matlab Aspen Plus and Aspen Dynamics to study the design of chemical reactors and their dynamic control There are numerous books that focus on steady state reactor design There are no books that consider practical control systems for real industrial reactors This unique reference addresses the simultaneous design and control of chemical reactors After a discussion of reactor basics it Covers three types of classical reactors continuous stirred tank CSTR batch and tubular plug flow Emphasizes temperature control and the critical impact of steady state design on the dynamics and stability of reactors Covers chemical reactors and control problems in a plantwide environment Incorporates numerous tables and shows step by step calculations with equations Discusses how to use process simulators to address diverse issues and types of operations This is a practical reference for chemical engineering professionals in the process industries professionals who work with chemical reactors and students in undergraduate and graduate reactor design process control and plant design courses

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