



### **A Low Pressure Guide to Boiler Control - B (Bologna)**

*Boiler Control Systems Engineering* by Jerry Gilman

Reviewed by Nick Sands

Burner and boiler control is a specialization often under-appreciated and there is a need for good reference books on the subject. Jerry Gilman's *Boiler Control Systems Engineering* might not be that reference. Gilman has all the right experience to write this book, including over 35 years with Proctor & Gamble specializing in burner and boiler control. He is an instructor for ISA's courses on burner control and boiler control and a member of ISA's SP84 and SP77 committees.

Gilman starts with an explanation of the waterside and the fireside of a basic boiler. This leads to a review of symbology and tuning, but not a clear one. The main part of the book is an examination of the main components of the boiler system and typical control of these components; the boiler, drum level & feedwater, fuel, air & firing rate, and steam temperature control.

These chapters assume knowledge that should have been explained and explain things that might be better explained elsewhere. The final chapters touch on burner management systems, environmental controls, and control valve sizing. A couple of appendices provide tutorials on general burner control and steam temperature control.

Gilman has added little to the resources on burner and boiler control because his book is not a clear and concise. From the first page the writing jumps, as if not fully developed in the 107 pages of the main book. Some important symbols and concepts go unexplained while others are explained in uneven steps. Overall this effort did not fulfill its potential and rates a B (bologna). It is available at ISA for the member price \$52.