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## Boiler Furnaces (Classic Reprint)

By Unknown Author

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Boiler Furnaces  
The process of combustion is affected by so many different physical conditions that in order to either design a furnace or superintend its operation, it is necessary to fully understand the chemical changes which take place. Among the physical conditions referred to above may be included strength of draft, depth of fuel bod, form of furnace, and the various methods of firing employed. So far as the generation of steam is concerned, combustion may be considered as the chemical union of oxygen with the various elements of the fuel for which it has an affinity. This union produces a definite amount of heat per pound of combustible, depending upon the clement with which the oxygen combines. The elements contained in the usual forms of fuel, which enter into the process of combustion, are oxygen, carbon, hydrogen and sulphur. There are various other constituents present which have no fuel value, such as the Iron, silicon, etc., found in coal. These usually exist in small quantities, and are classed as impurities. They produce a certain...



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