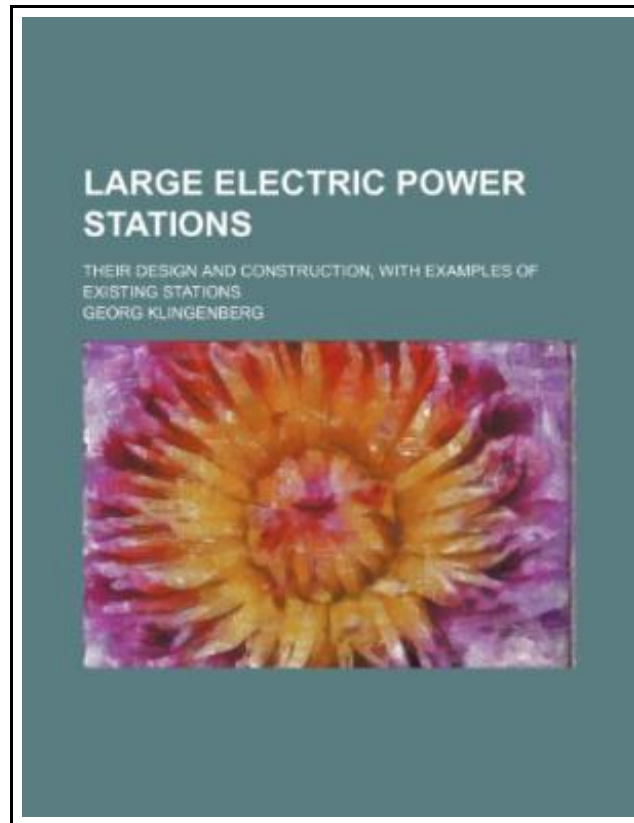


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(Kevin Bergstrom Sr.)

LARGE ELECTRIC POWER STATIONS; THEIR DESIGN AND CONSTRUCTION, WITH EXAMPLES OF EXISTING STATIONS



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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1916 edition. Excerpt: .expansion pieces.1 The pipework consists of seamless steel pipes with cast-steel flanges and globular T-pieces, cast-steel slide valves with nickel alloy packing. All valves can be operated from the floor of the boiler house. The main valves are fitted with indicators to show whether the valves are opened or closed. The steam pipes are lagged with siliceous compound of a thickness of 2-35 in. The flanges are protected by cast-iron covers with small drain tubes. The selection of the most suitable steam velocity requires special consideration for all generating stations working with a bad load factor. When dividing the losses in a steam range into thermal and pressure losses it will be seen that the former, being constant, largely affects the economy of the installation, whereas the maximum pressure losses are temporary only since they occur at peak loads. It is therefore evident that a reduction of the thermal losses is of considerable importance even at the cost of greater pressure loss. The former can, however, only be reduced under otherwise similar conditions, by reducing the exposed surface. This again is determined partly by the distance between the boilers and the engines, and partly by the velocity of the steam. The minimum length of steam piping was obtained by placing the boiler house with its axis vertical to that of the engine room, by the close proximity of the two without intervening buildings, and by the form of boiler construction introduced. Under the circumstances there...



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