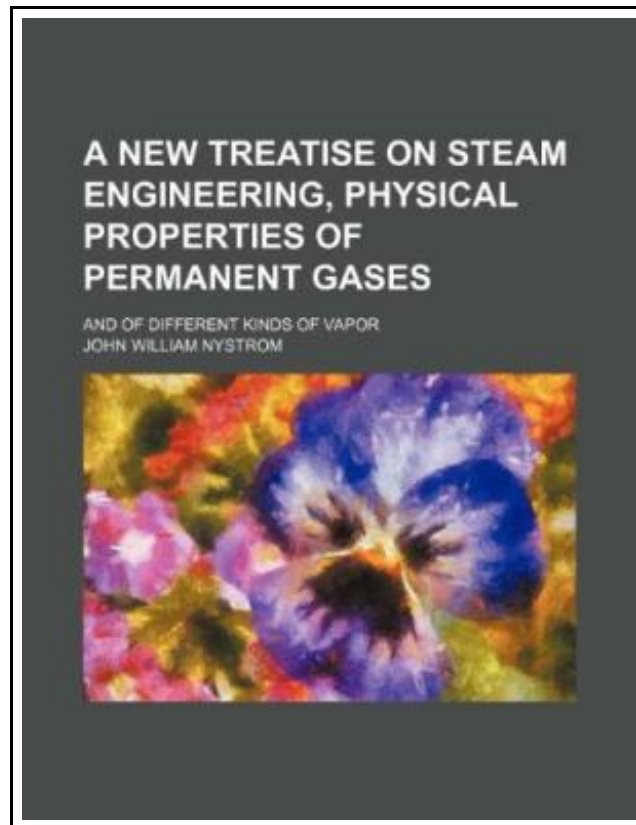


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A NEW TREATISE ON STEAM ENGINEERING, PHYSICAL PROPERTIES OF PERMANENT GASES; AND OF DIFFERENT KINDS OF VAPOR (PAPERBACK)



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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. 1876 Excerpt: . corresponding to the bursting pressure, there will be an explosion. The iron in steam-boilers, like any other material subjected to bursting strain, breaks at the weakest point; but it is difficult to find the location of that point, and very often boilers are not constructed, inspected or managed with sufficient care to guard against bursting. Thus steam-boiler explosions are caused by various neglects in guarding against such accidents--namely, First. By long use boilers become weakened by corrosion, which acts unevenly on different kinds of iron and in different parts of the boiler, and if not properly inspected and the weakened places repaired, the boiler may burst and explode. Second. The general construction, with staying and bracing of steam-boilers, is often very carelessly executed, and results in explosion. This kind of explosions are often indicated long before the accident occurs, by leakage of the boiler; when the engineer, not suspecting the approaching danger, limits the remedies generally to efforts toward stopping the leak. Leakage from bad caulking or packing is easily distinguished from that of bad or insufficient bracing, in which latter case the fire ought to be hauled out, the steam blown off gradually, and the boiler secured with proper bracing. Third. The strength and quality of iron in the original construction are not always properly selected to correspond with the duty expected of the boiler, which neglect causes explosion. Fourth. Single-riveted joints weaken the strength of a boiler about 50 per cent. of that...



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