

# Ge Steam Turbine Manual

The Design and Construction of Steam Turbines Training Manual on Steam Turbines & Auxiliaries (Non Reheat Type) DESIGN AND CONSTRUCTION OF STEAM

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highly recommended for power plant professionals seeking high growth in career interview preparations for power plant jobs a comprehensive training manual on steam turbines auxiliaries non reheat type covering all aspects for thermal power plants its a 300 page spiral bound manual must for every power plant professional the manual contains text images drawings illustrations so far the books written on thermal plants describe mostly the reheat type units these books are intended for technical personnel working in utility plants but again most of them deal predominantly with the theoretical aspects of turbines and their auxiliaries and lack in practical side of the subject the aim is to give following benefits to the reader to provide an in depth knowledge of plant and equipment to the plant professionals associated with industrial boilers and turbines it is to be noted that most of the industrial thermal units like captive power plants attached to main technological units are of non reheat type to cover the practical aspects of thermal power stations missing in most of the books available in the market the book describes in details the constructional features of the plant and equipment their operation and maintenance and overhauling procedures performance monitoring as well as troubleshooting to cover the theoretical aspects of a thermal unit necessary to be known to the professionals for thorough understanding of the systems involved this knowledge would assist them in selecting the plant and equipment suitable to their requirement in operating and maintaining the plant with best efficiency availability and reliability the book is a must for those working professionals who aspire for a fast growth of their professional career it will also be of immense help to the personnel preparing for boiler proficiency examinations it contains following topics chapter 1 thermodynamics of a steam turbine chapter 2 steam turbine fundamentals chapter 3

constructional features of steam turbines chapter 4 the lubricating oil system chapter 5 steam turbine governing system chapter 6 steam turbine protection system chapter 7 turbovisory system chapter 8 turbine gland sealing system chapter 9 turbine system and cycles chapter 10 condensers deaerators and closed feedwater heater chapter 11 main and auxiliary cooling water systems and cooling towers chapter 12 turbine plant pumps chapter 13 condensate and feed water treatment chapter 14 turbine plant operation chapter 15 turbine plant maintenance chapter 16 turbine performance and optimization

excerpt from the design and construction of steam turbines a manual for the engineer mr alexander richardson procured for the author complete data of important turbine tests which have proved invaluable to mr w chilton and mr j m newton b se of the brush electrical engineering company a special meed of thanks is due for the results of some of their experiments on blading the general scheme of this volume was decided on after much consideration and the author finally adopted the plan of giving without prior proof important rules and formulas in a shape convenient for immediate practical application the demonstrations are proceeded with later in the belief that they will be the more readily followed by the average reader when he has previously been impressed with the utility of the result about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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download a free scanned copy of the original book without typos from the publisher not indexed not illustrated 1913 edition excerpt to the extent of the clearance allowed at the thrust block which in the case of electriclight units is from 2 to 5 mils given the clearance the amount of leakage past the dummy can be estimated as follows referring to fig 70 the steam issues from between the first pair of rings with a considerable velocity and kinetic energy the whole of this is destroyed by internal friction before the steam reaches the second pair of rings which it does at a reduced pressure and augmented volume between these it again expands acquiring kinetic energy which is again destroyed before the third pair of rings is reached this process being repeated at each pair it will be seen that almost the whole of the available energy of the steam is destroyed by internal friction and that it issues from between the last pair of rings with a velocity much less than that due to its complete expansion subject to certain limitations detailed below the discharge through such a packing can be calculated by the formula where  $w$  denotes the weight discharged in pounds per second  $f$  the area available for flow in square feet  $p_i$  the initial absolute pressure in pounds per square inch and  $v_i$  the initial specific volume of the steam whilst  $n$  denotes the number of points at which the steam is wire drawn and  $x$  where  $p$  denotes the absolute pressure  $p_f$  on final discharge from the last ring of the packing the formula can be established as follows let the total energy available in 1 lb of steam expanding between the initial and final pressures be  $u$  heat units at each point of wire drawing a certain quantity of energy must be supplied to each pound of steam to create a velocity of flow let this be denoted by  $q_n$  heat units which as the steam increases

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the author of these memoirs was born in norway in 1936 in 1952 he moved to

karlskrona sweden to study mechanical engineering and 1956 he immigrated to the united states this book is his diary containing his true life memories

this book is designed to serve as a textbook for students and a reference for today's engineering officers port engineers superintendent engineers and other maritime professionals steam turbine propulsion systems are included but the coverage has been reduced in recognition of the popularity of main propulsion diesel engines covered in volume 2 and the anticipated increasing applications of aeroderivative gas turbines reciprocating steam engines have been eliminated pumps pumping systems and heat exchangers are given extensive coverage computer applications for machinery and system management are presented including an entire chapter on maintenance management relevant material on international and national laws classification society requirements and standards such as iso 9000 series and the ism code are included in the text the characteristics of fuels are presented along with a discussion of fuel testing and analysis and a section on bunkering a chapter on safety and management discusses shipboard engineering operations shipyard repair planning and economics and safety management each chapter includes review questions and references for additional study

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