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originally published in 1917 a manual of naval architecture is a comprehensive guide to the design and construction of ships and boats drawing on his many years of experience as a shipbuilder and engineer white provides detailed instructions on everything from building materials and construction techniques to propulsion systems and navigation equipment a foundational work in the field of naval architecture and an invaluable resource for anyone interested in the history and science of shipbuilding this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant this is a new release of the original 1877 edition excerpt from naval architecture a manual on laying off iron steel and composite vessels this manual has been written to meet a need amongst junior ship draughtsmen apprentice loftsmen and class students the author trusts it may answer its purpose for he has sought to make the subject clear by graphic sketch and everyday shipyard language after careful consideration it was thought it would be almost a repetition to enter very fully into the laying off of war vessels on the loft floor attention however has been given to explaining some of the more prominent parts which distinguish this class of work 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 this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant this historic book may have numerous typos and missing text purchasers can usually download a free scanned copy of the original book without typos from the publisher not indexed not illustrated 1900 edition excerpt arranged these iron riders are very efficient aids against hogging strains which are those most injurious to wood ships when hogging takes place the ends must drop relatively to the middle a change of form which would bring the iron riders under tensile strains the kind of strains which they are best fitted to resist against compressive strains these thin narrow bands of iron cannot be nearly so efficient as against tensile strains so that as commonly fitted riders are not of much service against sagging strains except amidships where the two systems overlap one another it is amidships that the severest strains are experienced so that the crossing of the riders there is a great advantage composite ships of the mercantile marine were usually built with a single thickness of planking and consequently needed diagonal strengthened one common plan of fitting these was to have rider plates riveted outside the iron frames and inclined 45 degrees to the vertical the upper ends of those riders were attached to the sheer strake and the lower to another detached longitudinal tie formed by a strake of plating worked at the bilge composite ships of the royal navy are built with their outside planking in

two thicknesses the edge seams of the planks in the inner thickness are each covered by a plank of the outer thickness the seams of the outer thickness are similarly covered by the planks of the inner thickness a strong edgewise connection is thus made in the double skin and consequently diagonal rider plates are dispensed with other composite ships have been constructed with the skin planking in two thicknesses one or both of which had the planks worked diagonally it was then unnecessary to fit diagonal rider plates to unlike some other reproductions of classic texts 1 we have not used ocr optical character recognition as this leads to bad quality books with introduced typos 2 in books where there are images such as portraits maps sketches etc we have endeavoured to keep the quality of these images so they represent accurately the original artefact although occasionally there may be certain imperfections with these old texts we feel they deserve to be made available for future 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contained in popular language a comprehensive summary of the theory of naval architecture being unable to name such a book and feeling confident that the desire expressed by 015 core of the royal navy will be shared by many officers of the mercantile marine as well as shipbuilders shipowners and others i decided to attempt the task now completed i venture to hope that the work may be found acceptable also as an introduction for students to the more mathematical treatment of the subject contained in other works and that even naval architects them selves may find some valuable information herein 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 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language a comprehensive summary of the theory of naval architecture existing treatises had been written mainly for the use of those who desired to obtain an acquaintance with the subject which would fit them for the practice of ship designing to benefit by these treatises a considerable knowledge of mathematics was necessary there was obviously a want in the literature of naval architecture and in its original form this book was intended to supply that want and to enable persons outside the profession of the naval architect to obtain a general acquaintance with the principles of the construction propulsion and behaviour of ships the book was written therefore in popular language and the mathematics introduced were of the simplest character explanations were given of many terms and mechanical principles which required no explanations to readers possessing a good knowledge of mathematics the details of theoretical investigations were omitted but the general modes of procedure were sketched and the practical deductions fully explained and illustrated from this point of view the survey of the theory of naval architecture was made as complete as possible 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

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A Manual of Naval Architecture 1877

excerpt from naval architecture a manual on laying off iron steel and composite vessels this manual has been written to meet a need amongst junior ship draughtsmen apprentice loftsmen and class students the author trusts it may answer its purpose for he has sought to make the subject clear by graphic sketch and everyday shipyard language after careful consideration it was thought it would be almost a repetition to enter very fully into the laying off of war vessels on the loft floor attention however has been given to explaining some of the more prominent parts which distinguish this class of work 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

A manual of naval architecture 1877

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Bureau of Ships Manual 1943

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excerpt from a manual of naval architecture for the use of officers of the royal navy officers of the mercantile marine shipbuilders shipowners and yachtmen the first edition of this book published in 1877 grew out of lectures delivered at the royal naval college to naval officers and others studying there in these lectures it was my endeavour to popularize and explain some of the many problems of naval architecture in a manner which should be intelligible to those who were interested in or connected with shipping but not engaged as naval architects or shipbuilders many officers who attended the lectures requested that they might be published and from shipowners yachtmen and other persons came inquiries for a book containing in popular language a comprehensive summary of the theory of naval architecture existing treatises had been written mainly for the use of those who desired to obtain an acquaintance with the subject which would fit them for the practice of ship designing to benefit by these treatises a considerable knowledge of mathematics was necessary there was obviously a want in the literature of naval architecture and in its original form this book was intended to supply that want and to enable persons outside the profession of the naval architect to obtain a general acquaintance with the principles of the construction propulsion and behaviour of ships the book was written therefore in popular language and the mathematics introduced were of the simplest character explanations were given of many terms and mechanical principles which required no explanations to readers possessing a good knowledge of mathematics the details of theoretical investigations were omitted but the general modes of procedure were sketched and the practical deductions fully explained and illustrated from this point of view the survey of the theory of naval architecture was made as complete as possible 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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