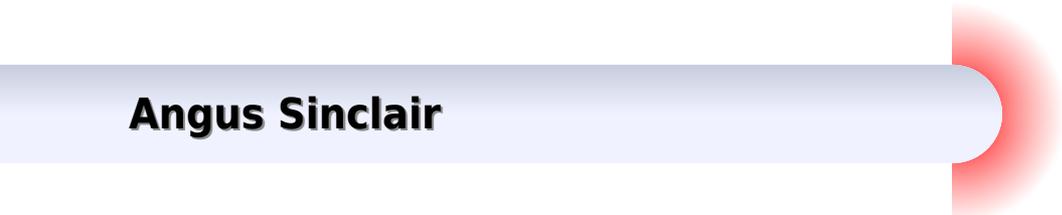


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THE "ROYAL GEORGE" ENGINE.

Development Of The Locomotive Engine

Angus Sinclair



Development Of The Locomotive Engine:

Development of the Locomotive Engine Angus Sinclair, 1970 First published in 1907 this work remains the best single source on the development of steam locomotives for those interested in their inner workings and technical specifications Most of the more recent offerings on the subject are primarily nostalgic picture books celebrating the outward design of the great engines of the past Sinclair spent half a lifetime operating locomotives before beginning a new career as a railway journalist which brought him in contact with the prime movers of the golden age of railroading The author s lively story telling style remains fresh and the scholarly value of the book has been much enhanced by the inclusion of some 650 notes provided by his editor who is a Curator of the U S National Museum Smithsonian Institution These notes provide further information and correct errors brought to light by more recent research The editor has also provided an afterword summarizing the final developments and the last years of the steam locomotive in the twentieth century This new edition retains all the numerous illustrations of the original some 200 historic locomotives are pictured plus numerous portraits of their designers and owners and line drawings of mechanical configurations Contents Introduction to the Annotated Edition Preface Origin and Growth of the Steam Engine Early Attempts at Locomotive Construction Development of Locomotive in Great Britain Genesis of American Railways Connecting the Ocean with Western Rivers First Links of the Pennsylvania Railroad The Philadelphia Columbia Railroad How the United States Worked into Locomotive Building Triumphs of Baldwin Sellers and Other Philadelphia Pioneers First Links of the New York Central Railroad First Railroad Construction in New England Locomotive Building in New England Work of New England Pioneer Master Mechanics Troublous Times in Railway and Locomotive Construction Locomotive Building in New Jersey The Erie Railroad Reading s Mark on the Locomotive The Lackawanna Railroad The Lehigh Valley Railroad and Its Motive Power Demand for Multi Coupled Engines Railroads Westward Ho Locomotive Boilers Smoke Preventing Appliances Spark Arresters and Draft Appliances Development of Valves and Valve Motions Freaks and Curiosities of Locomotive Designs Growth of the Train Brake Special Forms of Locomotives Locomotive Accessories Locomotive Works Still in Business Railway Development in Canada The Locomotive of To Day Afterword The Final Years of the Steam Locomotive in America by John H White Jr Selected Readings *Development of the Locomotive Engine* Angus Sinclair, 1907 *DEVELOPMENT OF THE LOCOMOTIVE* Angus 1841-1919 Sinclair, 2016-08-25 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 *Development of the Locomotive Engine* Angus Sinclair,2015-07-10 Excerpt from *Development of the Locomotive Engine A History of the Growth of the Locomotive Form Its Most Elementary Form Showing the Gradual Steps Made Toward the Developed Engine With Biographical Sketched of the Eminent Engineers and Inventors Who Nursed It on Its Way to the Perfected Form of to Day* My purpose in writing this book was based on the belief that all intelligent railway men and hosts of others are sufficiently interested in the locomotive to desire a book giving a comprehensive history of the growth of this form of engine The first moving cause for the determination to write this book originated about thirty years ago when I read an article in a popular magazine professing to give a condensed history of the locomotive engine that was full of misstatements and errors I wrote to the editor pointing out some of the most glaring mistakes such as one stating that the first portion of the New York Central Railroad was opened with an engine called the John Bull which had an upright boiler The editor replied that the article was written by a person who was an authority on such matters and that there was no doubt that the statements made were correct On reading the editors letter I determined to write a history of the locomotive and I have been collecting material for it ever since Most of the articles composing the book have been published in the pages of *Railway and Locomotive Engineering* my own journal As the articles appeared I invited readers to send in corrections if they found any mistakes They responded very exhaustively and many of the statements have led to long discussions and correspondence I have been actuated by an earnest desire to publish exact facts and after sifting conflicting statements have used my best judgment to give those that are founded on the most reliable authority That has caused the material in the book to be practically rewritten I give this book of history to the world with the humble hope that it may prove as free from mistakes as the most carefully written historical books have been and that it may be found of interest to many who are engaged in railroad operations or who may be interested in the appliances which have been used so successfully in the development of this great country Whatever may be the popular estimate of the work however nothing can ever deprive me of the pleasant recollection of the many cheering words of encouragement and help connected with its preparation that have come from almost every part of the world About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.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 *Development of the Locomotive Engine* Angus Sinclair,2015-10-17 This work has been

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