# "A TREATISE ON

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AUSTON

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G. B. MATHEWS, M.A.,

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**Andrew Gray** 

A Treatise on Bessel Functions Andrew Gray, 2017-09-15 Excerpt from A Treatise on Bessel Functions And Their Applications to Physics This book has been written in view of the great and growing importance of the Bessel functions in almost every branch of mathematical physics and its principal object is to supply in a convenient form so much of the theory of the functions as is necessary for their practical application and to illustrate their use by a selection of physical problems worked out in some detail Some readers may be inclined to think that the earlier chapters contain a needless amount of tedious analysis but it must be remembered that the properties of the Bessel functions are not without an interest of their own on purely mathematical grounds and that they afi ord excellent illustrations of the more recent theory of differential equations and of the theory of a complex variable And even from the purely physical point of View it is impossible to say that an analytical formula is useless for practical purposes it may be so now but experience has repeatedly shown that the most abstract analysis may unexpectedly prove to be of the highest importance in mathematical physics As a matter of fact it will be found that little if any of the analytical theory included in the present work has failed to be of some use or other in the later chapters and we are so far from thinking that anything super uous has been inserted that we could almost wish that space would have allowed of a more extended treatment especially in the chapters on the complex theory and on definite integrals 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 **A Treatise on Bessel Functions** Andrew Gray, 2015-06-16 Excerpt from A Treatise on Bessel Functions And Their Applications to Physics This book has been written in view of the great and growing importance of the Bessel functions in almost every branch of mathematical physics and its principal object is to supply in a convenient form so much of the theory of the functions as is necessary for their practical application and to illustrate their use by a selection of physical problems worked out in some detail Some readers may be inclined to think that the earlier chapters contain a needless amount of tedious analysis but it must be remembered that the properties of the Bessel functions are not without an interest of their own on purely mathematical grounds and that they afford excellent illustrations of the more recent theory of differential equations and of the theory of a complex variable And even from the purely physical point of view it is impossible to say that an analytical formula is useless for practical purposes it may be so now but experience has repeatedly shown that the most abstract analysis may unexpectedly prove to be of the highest importance in mathematical physics As a matter of fact it will be found that little if any of the analytical theory included in the present work has failed to

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