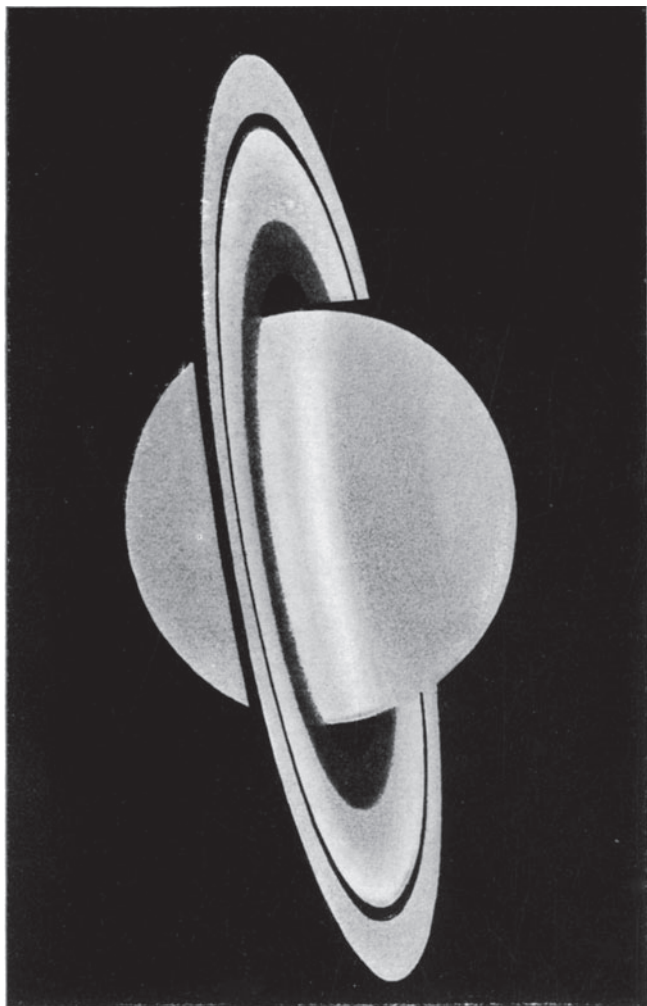


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**SATURN, July 2, 1894**  
PROF. BARNARD

*Frontispiece*

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# A PRIMER OF ASTRONOMY

BY

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CAMBRIDGE  
AT THE UNIVERSITY PRESS  
1911

Cambridge University Press  
978-1-107-42743-3 - A Primer of Astronomy  
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**CAMBRIDGE**  
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University Printing House, Cambridge CB2 8BS, United Kingdom

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[www.cambridge.org](http://www.cambridge.org)

Information on this title: [www.cambridge.org/9781107427433](http://www.cambridge.org/9781107427433)

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First edition 1900

Reprinted 1906

Issued with an additional Chapter and Maps 1911

First published 1911

First paperback edition 2014

*A catalogue record for this publication is available from the British Library*

ISBN 978-1-107-42743-3 Paperback

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## PREFACE.

FOR the pictures with which this little work is illustrated I have thankfully to acknowledge my obligation as follows. To the Astronomer Royal for a photograph of the Sun. To Professor MICHIE SMITH and Professor SCHAEBERLE for their photographs showing features in a Total Eclipse. To Professor FAUTH for his drawings of Jupiter. To Mr W. E. WILSON, F.R.S., for his photographs of the Dumb-bell Nebula and of the cluster in Hercules. To Professor E. E. BARNARD I owe the drawing of Saturn, the photograph of Swift's Comet 1892, the photograph showing the clusters in Perseus, and the photograph of Holmes' Comet and the great Nebula in Andromeda.

I must also acknowledge the kindness with which the Royal Astronomical Society placed these photographs taken from their beautiful series at my disposal.

ROBERT S. BALL.

CAMBRIDGE,  
*November, 1900.*

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