

Methuen's Shilling Novels

A SERIES of popular novels by distinguished authors at 1s. net.
The books are reprinted in handy form—fcap. 8vo.—on good paper, and they are tastefully bound in cloth. The first volumes published have been a great success.

The following are either ready or in the press :—

The Mighty Atom	Marie Corelli
Jane	Marie Corelli
Light Freights	W. W. Jacobs
The Guarded Flame	W. B. Maxwell
The Demon	C. N. and A. M. Williamson
Lady Betty Across the Water	C. N. and A. M. Williamson
The Tyrant	Mrs. Henry de la Pasture
Anna of the Five Towns	Arnold Bennett
The Secret Woman	Eden Phillpotts
The Long Road	John Oxenham
The Severins	Mr. A. Sidgwick
Under the Red Robe	Stanley Weyman
Mirage	E. Temple Thurston
Virginia Perfect	Peggy Webling
Spanish Gold	G. A. Birmingham
Barbary Sheep	Robert Hichens
The Woman with the Fan	Robert Hichens
The Golden Centipede	Louise Gerard
Round the Red Lamp	Sir A. Conan Doyle
The Halo	Baroness von Hutten
Tales of Mean Streets	Arthur Morrison
The Missing Delora	E. Phillips Oppenheim
The Charm	Alice Perrin

Methuen & Co., Ltd., 36 Essex Street, London, W.C.

[P.T.O.]

Methuen's Shilling Library

A SERIES of general literature issued in fcap. 8vo. at 1s. net, printed on good paper and well bound in cloth. The books are reprints of well-known works by popular authors.

The following are either ready or in the press :—

- | | |
|--|--------------------------|
| A Little of Everything | E. V. Lucas |
| The Vicar of Morwenstow | S. Baring-Gould |
| John Boyes, King of the Wa-kikuyu | John Boyes |
| Jimmy Glover—His Book | James N. Glover |
| Vailima Letters | Robert Louis Stevenson |
| The Life of Tennyson | A. C. Benson |
| An Ideal Husband | Oscar Wilde |
| Lady Windermere's Fan | Oscar Wilde |
| De Profundis | Oscar Wilde |
| Selected Poems | Oscar Wilde |
| Lord Arthur Savile's Crime | Oscar Wilde |
| The Blue Bird | Maurice Maeterlinck |
| Mary Magdalene | Maurice Maeterlinck |
| Sevastopol and other Stories | Leo Tolstoy |
| *The Life of Robert Louis Stevenson | Graham Balfour |
| *The Life of John Ruskin | W. G. Collingwood |
| The Condition of England | C. F. G. Masterman, M.P. |
| Letters from a Self-Made Merchant to his Son | George Horace Lorimer |
| The Lore of the Honey Bee | Tickner Edwardes |
| Under Five Reigns | Lady Dorothy Nevill |
| *From Midshipman to Field Marshal | Sir Evelyn Wood |
| Man and the Universe | Sir Oliver Lodge |
| * Slightly abridged | |

Methuen & Co., Ltd., 36 Essex Street, London, W.C.

MAN AND THE UNIVERSE

A STUDY OF THE INFLUENCE OF THE
ADVANCE IN SCIENTIFIC KNOWLEDGE
UPON OUR UNDERSTANDING
OF CHRISTIANITY

BY

SIR OLIVER LODGE, F.R.S.

NATURE'S VAST FRAME, THE WEB OF HUMAN THINGS,
BIRTH AND THE GRAVE, THAT ARE NOT AS THEY WERE.
SHALLEY

TWELFTH EDITION

METHUEN & CO. LTD.
36 ESSEX STREET W.C.
LONDON

[P.T.O.]

A

PREFACE

IF an apology is needed for the appearance of this book, as an outcome of the study of physical science, it must be found—partly in the special utterance permissible, or even necessary, after a century of discoveries which at one time seemed antagonistic to any reasonable view of Christianity,—and partly in the human right and duty to discern something of the relations between Man, Nature, and God.

Every one living in a period of religious awakening, and aware that human beings are among the effective and conscious agents in a process of evolution, is bound to do what he can towards stimulating a keener sense of the mystery and infinitude of the universe, and a wider recognition of the fact of human power and responsibility;—power to promote a further understanding of the possibilities of existence, both here and hereafter,—power also to assist in guiding the race towards a gradually growing destiny, and responsibility for a due share in preparing the way for the coming Kingdom.

LERICI, *April* 1908.

The present edition is intended to make the book more widely accessible. Every portion has been included, but the more immediately practical portion, Section II, has been placed at the end as Section IV.

UNIVERSITY OF BIRMINGHAM, *November* 1911.

<i>First Published (Tenth Edition) at 1s. net.</i>	<i>May 16th</i>	<i>1912</i>
<i>Eleventh Edition</i>	<i>June</i>	<i>1912</i>
<i>Twelfth Edition</i>	<i>September</i>	<i>1912</i>

<i>This Book was First Published (Demy 8vo)</i>	<i>October 8th</i>	<i>1908</i>
<i>Second, Third, and Fourth Editions</i>	<i>October to December</i>	<i>1908</i>
<i>Fifth, Sixth, and Seventh Editions</i>	<i>January to November</i>	<i>1909</i>
<i>Eighth and Cheaper Edition (Crown 8vo)</i>	<i>October 13th</i>	<i>1910</i>
<i>Ninth Edition (Crown 8vo)</i>	<i>June</i>	<i>1911</i>

I have felt
 A Presence that disturbs me with the joy
 Of elevated thoughts ; a sense sublime
 Of something far more deeply interfused,
 Whose dwelling is the light of setting suns
 And the round ocean and the living air
 And the blue sky and in the mind of man ;
 A motion, and a spirit, that impels
 All thinking things, all objects of all thought,
 And rolls through all things.

WORDSWORTH

And this to fill us with regard for man,
 With apprehension of his passing worth,
 Desire to work his proper nature out,
 And ascertain his rank and final place ;
 For these things tend still upward, progress is
 The law of life, man is not Man as yet.

BROWNING

TABLE OF CONTENTS

SECTION I

SCIENCE AND FAITH

CHAP.	PAGE
I. THE OUTSTANDING CONTROVERSY BETWEEN SCIENCE AND FAITH . The Teachings of Orthodox Science and of Orthodox Religion contrasted.	11
II. THE RECONCILIATION BETWEEN SCIENCE AND FAITH . The Doctrines of Uniformity, Immanence, Agency, and Control emphasized.	28
III. RELIGION, SCIENCE, AND MIRACLE . Meaning of Miracle—Arguments concern- ing the Miraculous—Law and Guidance— Miracle and Science—Miracle and Re- ligion—Human Experience.	48

SECTION II

THE IMMORTALITY OF THE SOUL

IV. THE TRANSITORY AND THE PERMANENT . Body and Soul ; Life and Death ; Persist- ence of Existence.	71
V. THE PERMANENCE OF PERSONALITY . Conservation of Value ; Permanent Element in Man ; Thought and Motion ; Argu- ment from Telepathy, Automatism, Sub- liminal Faculty, Genius, Mental Pathol- ogy ; Religious Objections.	86

MAN AND THE UNIVERSE

SECTION III

SCIENCE AND CHRISTIANITY

CHAP.	PAGE
VI. SUGGESTIONS TOWARDS THE RE-INTERPRETATION OF CHRISTIAN DOCTRINE Treating of the Atonement and of Regeneration.	113
VII. SIN, SUFFERING, AND WRATH A Sequel to the preceding.	130
VIII. THE MATERIAL ELEMENT IN CHRISTIANITY (1) Correspondence of Spiritual and Material; (2) The Resurrection of the Body; (3) The Resurrection of Christ.	155
IX. THE DIVINE ELEMENT IN CHRISTIANITY (The doctrine of the Divinity of Christ, or the Humanity of God.) (4) Christianity and History; (5) Varieties of Christianity; (6) Ecce Deus.	173

SECTION IV

CORPORATE WORSHIP AND SERVICE

X. THE ALLEGED INDIFFERENCE OF LAYMEN TO RELIGION An essay on the Neglect of Church Attendance.	195
XI. SOME SUGGESTIONS TOWARDS REFORM In the Services of the Anglican Church.	202
XII. UNION AND BREADTH A plea for Essential Unity amid Formal Difference in a National Church.	214
XIII. A REFORMED CHURCH AS AN ENGINE OF PROGRESS The power of a truly comprehensive and united Christendom.	235
GLOSSARY OF TECHNICAL TERMS AND STATEMENT OF MECHANICAL LAWS	247
INDEX	257

MAN AND THE UNIVERSE

SECTION I—SCIENCE AND FAITH