

TABLE OF CONTENTS.

CHAPTER I.

INTRODUCTION—ORIGINAL SILURIAN RESEARCHES.—DESIGN OF THIS WORK	Page 1
--	-----------

CHAP. II.

BASE OF THE SILURIAN ROCKS, AND EARLIEST ZONE OF FORMER LIFE.

Outlines, Structure, and Order of the older Rocks. — Earliest Crystalline Rocks. — The lowest Deposits in which a true Sedimentary Origin is seen are usually void of Signs of former Life.	
Order of Succession from such Unfossiliferous Strata upwards to the lowest Zone in which Fossil Remains have been detected in Great Britain	17

CHAP. III.

LOWER SILURIAN ROCKS — *continued.*

The Llandeilo Formation, its Slates, Schists, Sandstones, Limestones, and Interpo- lated Igneous Rocks. (2* and 2 of Map and Coloured Sections.)	45
---	----

CHAP. IV.

LOWER SILURIAN ROCKS — *continued.*

THE CARADOC FORMATION.

Caradoc Sandstone as developed in North Wales and Radnorshire. Types of the Formation in Shropshire, Herefordshire, &c.	
The Caradoc strictly united with the lower Deposits by its Structure and Fossil Contents	78

CHAP. V.

UPPER SILURIAN ROCKS.

General Character of the Upper Silurian Rocks, as divided into the Wenlock and Ludlow Formations	Page
The Wenlock Formation of Shale and Limestone, with its chief Fossils, described in ascending Order - - - - -	100

CHAP. VI.

UPPER SILURIAN ROCKS — *continued.*

The Ludlow Formation, General Character of. Its Subdivision in the Typical Districts, into Lower Ludlow Rocks, Aymestry Limestone, and Upper Ludlow Rocks - - - - -	124
---	-----

CHAP. VII.

SILURIAN ROCKS OF BRITAIN BEYOND THE TYPICAL REGION OF ENGLAND AND WALES, AS SEEN IN CORNWALL, THE NORTH-WEST OF ENGLAND, SCOTLAND, AND IRELAND - - - - -	144
---	-----

CHAP. VIII.

ORGANIC REMAINS OF THE LOWER SILURIAN ROCKS - - - - -	176
---	-----

CHAP. IX.

FOSSILS OF THE UPPER SILURIAN ROCKS - - - - -	207
---	-----

CHAP. X.

THE DEVONIAN ROCKS, OR OLD RED SANDSTONE, AS EXHIBITED IN THE BRITISH ISLES - - - - -	241
---	-----

CHAP. XI.

CARBONIFEROUS ROCKS.

Great Primeval Flora the Source of the Old Coal Deposits, — General View of these Deposits and their Organic Remains in the British Isles - - - - -	267
---	-----

TABLE OF CONTENTS. xi

CHAP. XII.

PERMIAN ROCKS.

Changes of the Surface before the Permian Deposits were accumulated. — Origin of the Term Permian as applied to the highest Group of Primeval Deposits. — The Permian Rocks of Russia, Germany, and England. — The Organic Remains of the Group - - - - -	Page 289
---	-------------

CHAP. XIII.

GENERAL VIEW OF THE SILURIAN, DEVONIAN, AND CARBONIFEROUS ROCKS OF SCANDINAVIA AND RUSSIA - - - - -	316
---	-----

CHAP. XIV.

PRIMEVAL SUCCESSION IN GERMANY AND BELGIUM.

General Sketch of the Character of the Older Rocks extending westwards from Poland and Turkey in Europe into the Alps and Carpathians. Devonian, Carboniferous, and Permian Rocks of Silesia and Moravia. Silurian Rocks (Lower and Upper) of Bohemia. Lower Silurian, Devonian, Carboniferous, and Permian Rocks of Saxony, the Thüringerwald, &c. General View of the Succession of Devonian and Carboniferous Rocks in the Rhenish Provinces and Belgium -	336
---	-----

CHAP. XV.

SILURIAN, DEVONIAN, AND CARBONIFEROUS ROCKS OF FRANCE, SPAIN, PORTUGAL, AND SARDINIA - - - - -	383
--	-----

CHAP. XVI.

SUCCESSION OF PRIMEVAL ROCKS IN AMERICA.

Order of the Palæozoic Strata in South America, the United States, and British North America - - - - -	408
--	-----

CHAP. XVII.

ON THE ORIGINAL FORMATION OF GOLD, AND ITS SUBSEQUENT DISTRIBUTION IN DEBRIS OVER PARTS OF THE EARTH'S SURFACE - - - - -	431
--	-----

CHAP. XVIII.

CONCLUSION.

	Page
Recapitulation — General View of the Succession of Life from a Beginning as based on positive Observation — The Progress of Creation — Theoretical Specu- lations distinguished from absolute Geological Results - - - - -	459

APPENDIX.

A. Vertical Range of Silurian Fossils - - - - -	485
B. Recent Surveys of the British Silurian Rocks - - - - -	490
C. Traces of Vegetable Matter in the Silurian and older Rocks - - - - -	492
D. Unconformity in Ireland of the Longmynd or Bottom Rocks ('Cambrian' of the Survey) to the Lower Silurian - - - - -	493
E. Barrande's Silurian System in Bohemia - - - - -	493
F. Depth of the Primeval Seas, and Colouring of the Shells of the Mollusca which lived in them - - - - -	495
G. Extension of Silurian Rocks in Spain - - - - -	<i>ib.</i>
H. Foraminifera in the Silurian Rocks - - - - -	496
I. Supposed Anomaly at Neffiez in France explained - - - - -	497
K. Australian Gold - - - - -	<i>ib.</i>
L. Produce of Silver - - - - -	<i>ib.</i>
M. Silurian Rocks in Silesia - - - - -	<i>ib.</i>
N. Palæozoic Rocks in Asia Minor - - - - -	498
O. Discoveries along the Flanks of the Malvern Hills - - - - -	<i>ib.</i>
P. Other Reptilian Remains in the Permian Rocks of Russia - - - - -	<i>ib.</i>
Q. On the former Changes of the Alps - - - - -	499
INDEX - - - - -	507