

**THE ROLLO
PHILOSOPHY,
PART I**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649168033

The Rollo philosophy, Part I by Various

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

VARIOUS

**THE ROLLO
PHILOSOPHY,
PART I**

THE
ROLLO PHILOSOPHY.

PART I.

WATER.

BY THE

AUTHOR OF THE ROLLO BOOKS.

PHILADELPHIA:
PUBLISHED BY HOGAN AND THOMPSON.

ENTERED ACCORDING TO ACT OF CONGRESS, IN THE YEAR 1842, BY
T. H. CARTER, IN THE CLERK'S OFFICE OF THE DISTRICT COURT
OF MASSACHUSETTS

STEREOTYPED AT THE
BOSTON TYPE AND STEREOTYPE FOUNDRY



P R E F A C E .

THE main design in view, in the discussions which are offered to the juvenile world, under the title of *THE ROLLO PHILOSOPHY*, relates rather to their effect upon the little reader's habits of thinking, reasoning, and observation, than to the additions they may make to his stock of knowledge. The benefit which the author intends that the reader shall derive from them, is an influence on the cast of his intellectual character, which is receiving its permanent form during the years to which these writings are adapted.

The acquisition of knowledge, however, though in this case a secondary, is by no means an unimportant, object; and the discussion of the several topics proceeds accordingly, with regularity, upon a certain system of classification. This classification is based upon the more obvious external properties and relations of matter, and less upon those

which, though they are more extensive and general in their nature, and, therefore, more suitable, in a strictly-scientific point of view, for the foundations of a system, are less apparent, and require higher powers of generalization and abstraction; and are, therefore, less in accordance with the genius and spirit of the *Rolle* philosophy.

As teachers have, in some cases, done the author the honor to introduce some of the preceding works of this class into their schools, as reading books, &c., considerable reference has been had to this, in the form and manner of the discussion, and questions have been added to facilitate the use of the books in cases where parents or teachers may make the reading of them a regular exercise of instruction.

CONTENTS.

CHAPTER I.	
WATER,.....	Page 9
CHAPTER II.	
WATER,.....	25
CHAPTER III.	
THE THREE DIFFICULTIES,	42
CHAPTER IV.	
EVAPORATION,	54
CHAPTER V.	
DAM BUILDING,.....	66
CHAPTER VI.	
HYDRAULICS,.....	83
CHAPTER VII.	
THE MEASURE OF PRESSURE,.....	95

CHAPTER VIII.		Page
BLOWING,.....		111
CHAPTER IX.		
BRIDGE BUILDING,.....		139
CHAPTER X.		
MOMENTUM,.....		151
CHAPTER XI.		
JONAS'S LECTURE,.....		163
CHAPTER XII.		
DISCRETIONARY POWER,.....		182

THE
ROLLO PHILOSOPHY.

CHAPTER I.

WATER.

IN the yard behind the house where Rollo lived, there stood a pump, with a sort of trough before it, made of planks, which was intended to conduct the waste water into a large hole in the ground before it. Rollo often wondered where the water came from, which was brought up by working the pump; and, also, where it went to, down in the hole at the end of the trough. He looked into the nose of the pump, but found that he could see in but a very little way. He also put his head down close to the hole. It was a square hole, with plank sides. It looked quite dark down there, but he thought he could see some stones at the bottom.

The trough had only three sides; the part towards the hole was of course left open,