

**STUDIES IN THE  
OSTEOPATHIC  
SCIENCES. BASIC  
PRINCIPLES. VOLUME I**

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Studies in the Osteopathic Sciences. Basic Principles. Volume I by Louisa Burns

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**LOUISA BURNS**

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**STUDIES IN THE OSTEOPATHIC SCIENCES**

**BASIC PRINCIPLES**

**VOLUME I**

**LOUISA BURNS, M. S., D. O., D. Sc. O.**

**PROFESSOR OF PHYSIOLOGY  
THE PACIFIC COLLEGE OF OSTEOPATHY**



**LOS ANGELES  
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## PREFACE TO THE SERIES.

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This series of text books is to be composed of eight volumes, dealing with the sciences which must underlie a rational system of therapeutics.

The appearance of the series may be modified by the publication of books dealing with the same subjects by other authors. For this reason, it is considered unwise to offer an exact list of the volumes in order. They will, however, consider the etiology, nature, prevention and diagnosis of diseased conditions, and the best manner of dealing with sick people from several standpoints.

It is intended that laboratory methods of investigating these subjects shall be magnified. The time is past for endeavoring to settle matters of fact by an appeal to argument, even though the argument be logically based upon premises from the best of authorities. Original work will hold first place in these books. It is not intended that the researches of others shall be disregarded. The only point is that it is actual observations which are to be considered, and not arguments based merely upon other people's opinions.

It is evident that such a work as this must require much time. Therefore succeeding volumes are not to be expected at short intervals.

LOUISA BURNS.

The Laboratory of Physiology,  
The Pacific College of Osteopathy.

## PREFACE TO THE FIRST VOLUME.

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This book is written for the use of students of osteopathy, either before or after their graduation. It is hoped that the rather broad discussion of the biological principles upon which the methods of osteopathic therapeutics are based will be found somewhat suggestive and convincing. The experiments demonstrating the osteopathic centers are described rather fully, in the hope that they may be repeated or continued by others.

The collateral readings at the foot of the chapters will be found instructive. It is expected that students who take up this book have already a fair knowledge of biology, anatomy and physiology, both comparative and human. The collateral readings will include, however, references to those text books of physiology which contain especially valuable discussions of points referred to in the different chapters. For those who wish to study the collateral subjects more thoroughly, the bibliography will be found helpful, though it is by no means exhaustive.

The glossary has been generously planned. The needs of those students of osteopathy whose diplomas are beginning to turn yellow were especially considered in the preparation of this feature.

Wherever this book may go, I wish to send with it my earnest appreciation of the tireless and intelligent assistance which the students of The Pacific College have given me in its preparation. During these long series of experiments, amid the difficulties which always attend new work, I have found continued inspiration and strength in the enthusiastic co-operation of my friends, my fellow-students in the Laboratory

of Physiology.

The kindly interest of my fellow teachers and of the osteopaths of the County Association has been very helpful.

I should like this book to carry with it also my sincere gratitude for the generous encouragement and the thoughtful advice given me by Clement A. Whiting, D. Sc., D. O.

LOUISA BURNS.

The Laboratory of Physiology,  
The Pacific College of Osteopathy,  
Los Angeles, California, July 3, 1907.