

**A DESCRIPTION OF THE BONES,
TOGETHER WITH THEIR SEVERAL
CONNEXIONS WITH EACH OTHER, AND
WITH THE MUSCLES; SPECIALLY
ADAPTED FOR STUDENTS IN ANATOMY**

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A Description of the Bones, Together with Their Several Connexions with Each Other, and with the Muscles; Specially Adapted for Students in Anatomy by John F. South

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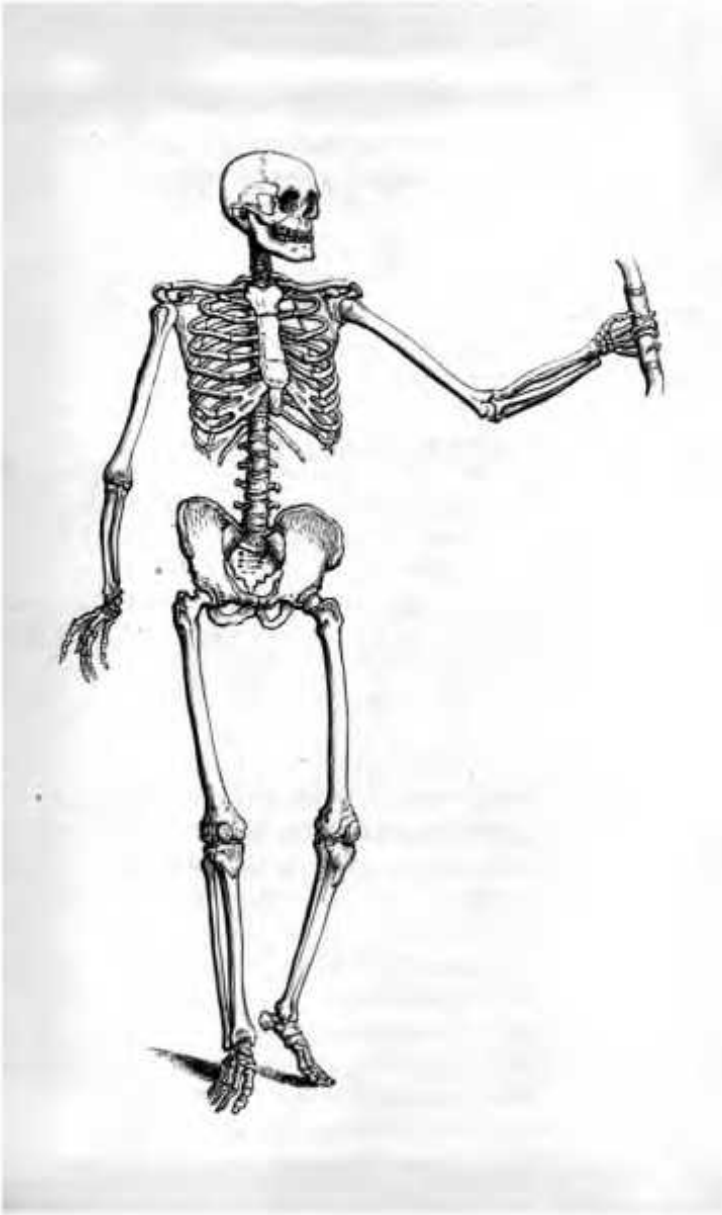
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JOHN F. SOUTH

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WITH THE MUSCLES; SPECIALLY ADAPTED

FOR
Students in Anatomy.

By JOHN F. SOUTH,
ASSISTANT-SURGEON TO ST. THOMAS'S HOSPITAL.



ILLUSTRATED WITH NUMEROUS ENGRAVINGS BY BRANSTON.

THIRD EDITION,
ENLARGED AND CORRECTED.

LONDON:
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PATERNOSTER ROW.

1837.

280.

PREFACE.

IN presenting to the Profession a Third Edition of this little Work, I trust that its altered form will tend considerably to improve its usefulness. The employment of pictorial illustration as auxiliary to descriptive Anatomy, is now so general, and the increased facility it affords to the Student so fully admitted, that I feel no apology necessary for the introduction of Wood-cuts as explanatory of the text. It is not intended to compete with the magnificent "*Osteographia*" of Cheselden, which must ever be considered one of the finest specimens of engraving and anatomical fidelity; but the great value and rarity of that noble work remove it beyond the reach of most persons, and its large size would, even if it were easily procured, render it inconvenient for constant reference.

I have, therefore, availed myself of MR. BRANSTON'S able assistance, in providing for the Student a pocket companion on that section of Anatomy

which, if perfectly understood, renders every other comparatively easy. The Drawings for the several subjects, have been made from the bones themselves, and are not, as is commonly the case, copied from other works, with the exception of the frontispiece from Cheselden, and some parts of the Ear, which have been taken from Soemmering's great work, "*De Auditu*," and which are acknowledged.

The entire section on the bony structure of the Ear I have added more fully than at first intended; and I hope the description here given will remove the difficulty so commonly felt in acquiring a knowledge of that beautiful, though complicated apparatus.

JOHN F. SOUTH.

2, ADELAIDE PLACE, LONDON BRIDGE,
December 1, 1836.

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A
DESCRIPTION
OF
THE BONES.

CHAPTER I.

Of the Skeleton.

THE BONES are those hard parts of the Human Body which are composed principally of phosphate, with a small portion of carbonate of lime, deposited in an organized substance, consisting of gelatine, and plentifully supplied with vessels, for the purpose of nourishment and growth.

They serve as a frame-work to the soft parts; protect the more important organs; and afford a series of levers, by means of which, through the agency of the muscles, locomotion is performed.

The Bones together form

THE SKELETON,

which is said to be either NATURAL OR ARTIFICIAL.

It is called a NATURAL SKELETON, when the bones are kept together by their natural ligaments; but this