

**ELEMENTS OF FORTIFICATION:
FIELD AND PERMANENT. FOR
THE USE OF STUDENTS, CIVILIAN
AND MILITARY; PP. 1-205**

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Elements of Fortification: Field and Permanent. For the Use of Students, Civilian and Military;
pp. 1-205 by A. F. Lendy

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A. F. LENDY

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ELEMENTS
OF
FORTIFICATION.

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FORTIFICATION:

FIELD AND PERMANENT.

FOR
THE USE OF STUDENTS, CIVILIAN AND MILITARY.

BY
CAPTAIN A. F. LENDY,
DIRECTOR OF THE PRACTICAL MILITARY COLLEGE OF SUNBURY,
LATE OF THE FRENCH STAFF, &c. &c.



LONDON:
JOHN W. PARKER AND SON, WEST STRAND.
1857.

231. G. 5.

TO HIS ROYAL HIGHNESS
THE DUKE OF CAMBRIDGE, K.G.
MTC. MPO.

COMMANDING-IN-CHIEF HER MAJESTY'S FORCES,

THIS WORK
IS,
BY HIS ROYAL HIGHNESS'S GRACIOUS PERMISSION,

MOST RESPECTFULLY

DEDICATED,

BY HIS OBEДИENT HUMBLES SERVANT,

A. F. LENDY.

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PREFACE.

FORTIFICATION has long been considered the exclusive province of the Engineer; it has been hidden from profane eyes by a thick cloud of technicalities and minutiae of plan drawing, geometry, &c. Hence the small number of Officers of the Line familiar with its elements.

In the following pages I have endeavoured to bring these elements within the reach of every one, by carefully avoiding all puzzling and needless detail, and confining myself to the *spirit* and *substance* of the science.

Those of my readers who are already acquainted with the most elementary principles of geometry will be able to construct on paper a front of Vauban, or any other work, with all the accuracy required for the examination for Her Majesty's Service.

Those who do not possess these principles will nevertheless, I trust, understand the science, and become sufficiently familiar with it for all Field purposes. To these in particular I address myself; and to encourage them, and show them that they may still become good Engineers, I have only to point out Maréchal Comte de Pagan, a most distinguished military engineer, who knew nothing of drawing, projections, &c., and did not begin his studies until after he had lost his sight.

Both classes of readers must, however, bear in mind that it is not by reading a single book that they can become masters of the science; but that it is by perusing the records of campaigns, and availing themselves of the experience they contain.

The limits of this elementary treatise do not allow me to enter into great historical details; I have, therefore, merely indicated the chief sources whence further information may be derived, whenever opportunity offers.

A. F. LENDY.

Sunbury, May, 1857.