

**A TEXT-BOOK OF MILITARY
ENGINEERING, FOR THE USE OF
THE CADETS OF THE UNITED
STATES MILITARY ACADEMY.
PART II. AND III**

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A Text-Book of Military Engineering, for the Use of the Cadets of the United States Military Academy. Part II. And III by J. B. Wheeler

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J. B. WHEELER

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A
TEXT-BOOK
OF
MILITARY ENGINEERING,

FOR THE USE OF THE
CADETS OF THE UNITED STATES MILITARY ACADEMY.

PARTS II. AND III. .
COMPREHENDING
SIEGE OPERATIONS AND MILITARY MINING, WITH AN APPENDIX
GIVING THE PRINCIPLES OF FORTIFICATION DRAWING.

BY
J. B. WHEELER,
PROFESSOR OF ENGINEERING AT THE U. S. MILITARY ACADEMY, AND
BREVET-COLONEL, U. S. ARMY.



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PREFACE.

THIS Text-book has been prepared for the use of the cadets pursuing their studies in the course of Fortification at the United States Military Academy.

All unnecessary allusion to details has been as far as possible avoided in the text, leaving these matters to be supplied by the instructor in the class-room.

The "theory of mines" used in Part III. is not the one ordinarily given in works upon Military Engineering, but is the one advanced by Prof. H. Höfer in his notes upon mining, which have been translated by Captain Chas. W. Raymond, U. S. Engineers.

It has been deemed advisable to add an appendix, explaining the method of "Fortification Drawing." I have been assisted in the preparation of this addition, by a translation of General Noizet's notes upon this subject, made by Lieut. D. C. Kingman, U. S. Engineers, and by valuable suggestions made by Lieut. Roessler of the U. S. Engineers.

To Lieut. Willard Young, U. S. Engineers, I am indebted for much assistance in preparing these pages for the press.

J. B. W.

WEST POINT, N. Y.,
January, 1888.

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