

Garrison peace and war establishments.

Armament, guard and full, nature of pieces, amount of ammunition.

Engineer stores.

Provisions.

Preparations for defence if threatened; interior organization of the place.

Works which require to be carried out by the Engineers and Artillery.

Distribution of troops.

Measures required to resist attack.

By the enemy's field army under the heads given [in syllabus of attack, section A, viz.:

*a* and *b*. By surprise or open assault.

*c*. By bombardment.

*d*. By blockade.

**B. BY REGULAR ATTACK.—**

*a*. Preparatory arrangements.

*b*. Resistance to investment.

*c*. Obstructions of the preparations for the regular siege.

*d*. Resistance to the operations of the regular siege.

*α*. Against the first artillery position.

Modifications of armament. Retrenchment commenced. Special for first class fortresses,—intermediate batteries between and retrenchments behind, the detached forts.

*β*. Against progress of attack to first parallel.

Defence of advanced posts (see ) ; large sorties.

Lighting up ground at night and careful observations.

Firing on working parties ; large sorties.

Against the second artillery position.

Concentration of fire on batteries in succession.

Interruption of working parties if discovered by shrapnel fire.

Against advance to third parallel.

1. Same operations against second parallel as against first.

2, 3 and 4. Against saps, demi-parallels and third parallel.

Fire upon sap heads. Small sorties. Counter approaches.

*ε*. Against advance to covered way.

1. Creation of difficulties, obstacles, mines.

2. Same as against other saps.

3. Counter mines to oppose besiegers' mines. (See also mining.)

4, 5, 6, 7 and 8. Against double saps, demi-parallels, fourth parallel.

Crowning covered way by sap.

Concentration of fire and small sorties as against other saps. Wall pieces in place of arms, plunging fire from cavaliers.

9. Against crowning covered way by assault.

Concentration of fire as before ; sentries on flank.

10. Against fifth parallel.

Same as against other saps.

*ζ*. Against breaking into enceinte.

1. General preparations.

2. Against breaching of escarp.

Concentration of fire, and sortie against breaching batteries, in lodgement and gallery of descent, retaining possession of covered way as long as possible.

3. Against breaching by mines, &c.

Sorties and vertical fire in the ditch. Water manœuvres in wet ditch. Shells rolled over and flank fire against attached miner. Counter-mines under ditch.