

CHAPTER IV.

THE ORDER OF DEVELOPMENT OF MACHINE INDUSTRY.

- § 1. *A Machine differentiated from a Tool.*
- § 2. *Machinery in Relation to the Character of Human Labour.*
- § 3. *Contributions of Machinery to Productive Power.*
- § 4. *Main Factors in Development of Machine Industry.*
- § 5. *Importance of Cotton-trade in Machine Development.*
- § 6. *History refutes the "Heroic" Theory of Invention.*
- § 7. *Application of Machinery to other Textile Work.*
- § 8. *Reverse order of Development in Iron Trades.*
- § 9. *Leading Determinants in the General Application of Machinery and Steam-Motor.*
- § 10. *Order of Development of modern Industrial Methods in the several Countries—Natural, Racial, Political, Economic.*

§ 1. It appears that in the earlier eighteenth century, while there existed examples of various types of industrial structure, the domestic system in its several phases may be regarded as the representative industrial form. The object of this chapter is to examine the nature of those changes in the mechanical arts which brought about the substitution of machine-industry conducted in factories or large workshops for the handicrafts conducted within the home or in small workshops, with the view of discovering the economic bearing of these changes.

A full inductive treatment would perhaps require this inquiry to be prefaced by a full history of the inventions which in the several industries mark the rise of the factory system and the adoption of capitalist methods. This, however, is beyond the scope of the present work, nor does it strictly belong to our scientific purpose, which is not to write the narrative of the industrial revolution, but to bring