

Fundamental Marxian Theorem without Mathematical Formula

Tadasu Matsuo

Ritsumeikan University

Abstract :

The Fundamental Marxian Theorem is the most famous Nobuo Okishi's theorem, which shows the equivalence between positive profit and exploitation of labour. Marx's original demonstration about the same argument depends on the premise of the labour value price theory and the labour power reproduction theory of wage determination, both of which have been widely criticized today. But Okishio's FMT overcame the criticism because it holds under general price and wage determination.

However, original FMT is demonstrated by linear algebra, which are not taught for non-science course students in Japan. For ordinary readers, Okishio demonstrated it in his Theory of Accumulation by a two sectors model which makes the demonstration easier using equations of junior high school level of mathematics. But for many ordinary working class people, to whom Okishio wrote the book, even the demonstration is too difficult to understand.

Thus, I developed a strict demonstration of FMT of general n-sectors model, without using any mathematical formula. Instead, I use rectangle figures. And by this expression, the essential meaning of FMT, which is difficult to grasp by mere mathematical formula, become obvious.