A money function for a planet with 3 world wars

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Abstract

In this paper, I describe a money function for a planet with 3 world wars. The paper ends with "The End" $\,$

Introduction

In a previous paper, I've described an effective money function. In this paper, I describe a money function for a planet with 3 world wars.

A model of a planet with 3 world wars

The war economy exists from t=0 to t=T. Let $0 \le U < V < W < T$ be the points in time when each of the 3 wars begin.

Differential equations for a money function for a planet with 3 world wars

Differential equations for a money function for a planet with 3 world wars are:

$$\frac{\partial r(t)}{\partial t} = a(U - t)(V - t)(W - t) + b$$

$$\frac{\partial M(t)}{\partial t} = -r(t)(T - t)M(t)$$

where

t is time a and b are constants r(t) is the money rate M(t) is the money function

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A solution to the differential equations above is:

$$r(t) = \frac{1}{12} \left(-3at^4 + 4at^3U + 4at^3V + 4at^3W - 6at^2UV - 6at^2UW - 6at^2VW + 12atUVW + 12bt + 12c \right)$$

where

c is a constant of integration M_0 is the initial amount of money

The End