THE CONTRACTION MAPPING PRINCIPLE APPLIED
FOR SOLVING NONLINEAR CYCLIC SYSTEMS OF EQUATIONS

ABSTRACT. In this paper we give a method for solving cyclic systems of equations, i.e. systems of the form

$$x = f(y)$$

$$y = f(z)$$

$$\vdots$$

$$t = f(x) ,$$

with f a given real function, by means of some elementary fixed point results.

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