

Asymptotic formula for solutions of Volterra difference equations with infinite delay

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For linear Volterra difference equations with infinite delay, we obtain an explicit asymptotic representation formula of solutions by utilizing a part of some bases belonging to the phase space, together with a part of the dual bases for the formal adjoint equation associated with a certain bilinear form. Our technique employed here is similar to the standard one in the theory of linear functional differential equations.

References

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