

# On index-2 linear implicit difference equations

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**Abstract:** This paper deals with an index-2 notion for linear implicit difference equations (LIDEs) and with the solvability of initial value problems (IVPs) for index-2 LIDEs. Besides, the cocycle property as well as the multiplicative ergodic theorem of Oseledets type are also proved. © 2010 Elsevier Inc. All rights reserved.

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