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Nonlinear Sciences > Exactly Solvable and Integrable Systems

On Darboux Integrable Semi-Discrete Chains

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Differential-difference equation $\frac{d}{dx}t(n+1,x)=f(x,t(n,x),t(n+1,x),\frac{d}{dx}t(n,x))$ with unknown t(n,x) depending on continuous and discrete variables x and n is studied. We call an equation of such kind Darboux integrable, if there exist two functions f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f and f of a finite number of arguments f of a finite number of arguments f and f of a finite number of arguments f of a finite number of argument

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