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Discrete Time Control Systems - ETH Z

$d[n] = a[n] - 3a[n-1] + 3a[n-2] - a[n-3]$ is equivalent to this set of equations: $d[n] = c[n] - c[n-1]$
 $c[n] = b[n] - b[n-1]$ $b[n] = a[n] - a[n-1]$. As the first step, use the last equation to eliminate $b[n]$ and $b[n-1]$ from the $c[n]$ equation: $c[n] = (a[n] - a[n-1]) - (a[n-1] - a[n-2]) = a[n] - 2a[n-1] + a[n-2]$.

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Discrete control systems, as considered here, refer to the control theory of discrete-time Lagrangian or Hamiltonian systems. These discrete-time models are based on a discrete variational principle, and are part of the broader field of geometric integration.

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