EQUAZIONI ALLE DIFFERENZE (ED. Del BUDNO)

EQUATIONE AUE DIFFERENTE ONOCENEA

mato in dayine of deno mawino:

conjuino il torinomio considerazione b(x) = 5+01.5+1 - ON (ME, il coetticiente ou d'(N) apre surer =1. vé ± +1 vi avinar sous de

CHOOLO 10 MORICI 7112 011 p(2):

$$\frac{2112 = -3 \pm 19 - 8}{2} = \frac{-3 \pm 1}{2} = \langle -1 = 21 \rangle$$

trap is now thou devertily april a grant

con crece continue orginative che bei euror abjetiminate minocombnie

Zichieopro l'imporitione or II conditioni initiali.
$$J(n) = C_1 \cdot (-1)^n + C_2 \cdot (-2)^n$$

calcob a ca impovenob le conditioni initiali:

e zinduemon il nintema vineare:

2(N) = 10 (-1) + (-4) · (-5) = (-1) + 2 n+2

EQUATIONE ALLE DIFFERENHE COMPLETA CON TERMINE NOTO COSTANTE

ED EQUATIONS AND ED SHAPPER SHA SHOTHERD DE yan)+3y(n-1)+2y(n-2)=3 (H=2 = Daipende as and 17PT backles CON TERMINE NOTO COSTANTE

and amindre continue demonantes ui bra arreneus came varitable alons amadines + varitare briscongis ally complete.

(u) is eight mas and introductions of our continual be obetinitions:

un' equitione alle differente completa con termine noto contante.

11 carebonouses borronnio consideras o

mora:

$$g(n) = \overline{q} = \frac{\partial}{\partial u} = nontione full points$$

$$\overline{9}(n) = \frac{3}{6} = \frac{1}{2}$$

((n) W) conspone individuo of compilari

: (typ commission in a sold for the commission of the contraction of t

$$2 = -3 \pm \sqrt{9-8} = -3 \pm 1 = \sqrt{-1 = 21}$$

Troop le nourtioni greverain deu amograpa: (Win)= C. Zin+ Cz. Zin)

$$M(N) = C' \cdot (-1)_N + C' \cdot (-5)_N$$

 $M(N) = C' \cdot (-1)_N + C' \cdot (-5)_N$

Lrong Frank, density own of mou of mount S(N) = C1. (-1) + C2. (-2) + =

ight iteitini inottinano CO STO STATES OF CLE CLE e committi vall formold.

combett.

CHOOD (7 Å(N) what the bru come offer combigs:

tojok ! I jecnine noto é on tuno dimon he vornioni à cu) un muno del

CON A+ B CONTINITION OF DETERMINATE.

UDULI LIFERDAD MEIL, EDIDAHIONE UL MA:

$$(An+B)-8[A(n-1)+B]+15[A(n-2)+B]=2n+1$$

upo le obération!:

pe ome bill oblisabilione:

e l'Edro ! Lermini con n' alei ame mempir almi edostique à ! Lermini nozi

$$\begin{vmatrix}
8A = 2 \\
-22A + 8B = 1
\end{vmatrix} = 0
\begin{vmatrix}
A = \frac{1}{4} \\
-32 \cdot \frac{1}{4} + 8B = 1
\end{vmatrix} = 0
\begin{vmatrix}
A = \frac{1}{4} \\
-11 + 16B = 2
\end{vmatrix} = 0
\begin{vmatrix}
A = \frac{1}{4} \\
B = \frac{13}{16}
\end{vmatrix}$$

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19 vantare brilicans don1:

CONCORD HE WORM, OMEDINES M(N):

Callodo il polivornio caratterinno pu):

Crab le rapiici oni p(7):

$$2112 = 8 \pm \sqrt{64 - 4.15} = 8 \pm \sqrt{4} = \frac{8 \pm 7}{2} = \sqrt{5 = 22}$$

Trop to worthour density dens amade nest: (M(N) = C1 · F1, + C2 · F2)

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Crado le noutioni alla combeta:

Calado Cie Cz impovenoto le conditioni initiati i

$$\begin{cases} y(-1) = 0 & <=> c_1 \cdot s^{-1} + c_2 \cdot s^{-1} + \frac{1}{4} (-1) + \frac{1s}{16} = 0 \\ y(-2) = 0 & <=> c_1 \cdot s^{-2} + c_2 \cdot s^{-2} + \frac{1}{4} (-2) + \frac{1s}{16} = 0 \end{cases}$$

czamberdo il viviento livetto:

$$\begin{vmatrix} \frac{C_1}{3} + \frac{C_2}{5} - \frac{1}{4} + \frac{13}{16} = 0 \\ \frac{C_1}{9} + \frac{C_2}{25} - \frac{1}{2} + \frac{13}{16} = 0 \end{vmatrix} = \begin{vmatrix} 80 c_1 + 48 c_2 - 80 + 195 = 0 \\ 400 c_1 + 194 c_2 - 1800 + 2925 = 0 \end{vmatrix}$$

$$\begin{cases} 80 c_1 + 48 c_2 + 135 = 0 \\ 400 c_1 + 144 c_2 + 1125 = 0 \end{cases} = \lambda \begin{cases} c_1 = -48 c_2 - 135 \\ 400 \left(-48 c_2 + 135 \right) + 144 c_2 + 1125 = 0 \end{cases}$$

$$= 5)^{C_1 = -48Cz - 135} = 5$$

$$= 19200 Cz + 52800 + 144Cz + 1125 = 0$$