

Resumão

especial

MATEMÁTICA FINANCEIRA COM A HP 12C

A CALCULADORA

Lançada em 1981, a HP 12C (chamada popularmente de HP) é a calculadora mais conhecida e utilizada por quem necessita trabalhar com cálculos financeiros.

Avançada — trabalha com muitas funções e memórias — e **programável** — possui funções para edição de programas, número ampliado de memórias, etc. —, utiliza o método RPN (sigla em inglês de *Reverse Polish Notation*, ou notação polonesa reversa), criado pelo cientista australiano Charles Hamblin nos anos 50 a partir de um aprimoramento do método de notação polonesa, conhecido desde os anos 20. Esse sistema, combinado com outra característica da HP, que é o funcionamento com **pilha operacional**, possibilita realizar operações lógicas encadeadas, com a inserção de todos os dados de uma única vez, diferentemente do que ocorre com as calculadoras que operam no modo algébrico, em que os cálculos complexos devem ser executados etapa a etapa. E por conta desse modo de funcionamento que na HP os elementos devem ser inseridos antes da operação.

Operação	Notação Algébrica (calculadora comum)	Notação Polonesa Reversa (HP 12C)
$a+b$	$a+b$	$ab+$
$\frac{a+b}{c}$	$(a+b)/c$	$ab+c/$
$\frac{a-b-cd}{ef}$	$(a-b-c*d)/e*f$	$ab*cd+ef/$

Assim, para realizar a operação $4+6$ na HP, procede-se da seguinte forma:



Ou seja, digitam-se primeiro os elementos da operação e, por último, a operação (no caso, soma), sem a necessidade de digitar [=], tecla que existe na calculadora HP (no versão Pilha Simples, a tecla [=] existe, porque um dos diferenciais desse modelo é permitir o uso no modo algébrico de cálculo).

A PILHA OPERACIONAL

A HP utiliza um processo de armazenamento de dados denominado **pilha operacional**, que nada mais é do que um arquivo com quatro registradores (X, Y, Z e T) nos quais são "guardados" os valores necessários à realização das operações. Usa-se o nome "pilha" porque os registros vão sendo "empilhados" dentro da máquina; os dados apresentados no visor são os relativos ao registrador X.

A medida que são inseridos novos dados, eles vão sendo "empilhados" até a realização de operações subsequentes. Utilizando o exemplo anterior, é possível compreender, pela figura a seguir, como funciona a pilha operacional da HP.

USO DO TECLADO

Para selecionar a função auxiliar localizada em uma tecla situada acima de uma tecla, aperte a tecla [F] e, em seguida, a tecla de função.

Para selecionar a função primária impressa na face superior de uma tecla, aperte somente a tecla.

Para selecionar a função secundária impressa em uma face inferior de uma tecla, aperte a tecla [C] e, em seguida, a tecla de função.



Tecla	Operação	Resultado	Descrição
[ON]	T		Limpa os registros.
[4]	X		
[+]	Y	4	O número 4 aparece no visor.
[6]	Z	4	O número 4 é "empilhado" em Y, mostrando cópia provisória em X.
[+]	T	4	O número 6 substitui a cópia provisória em X.
[=]	X	10	Após digitar a operação, os conteúdos de X e Y são somados, e o resultado é mostrado em X.

Como dito, é a combinação do sistema RPN e do funcionamento com pilha operacional que permite otimizar as operações na HP em relação às calculadoras convencionais.

Vejamus a seguinte expressão:

$$(7+3) + (5+4)$$

Enquanto em uma calculadora algébrica (comum) é necessário realizar cada operação colocada entre parênteses de uma vez e anotar o resultado, na HP é possível realizar todas as operações simultaneamente:



Note que as operações são feitas seguindo a hierarquia algébrica (primeira, a que está dentro dos parênteses). Assim, a soma entre os parênteses é a última etapa, precedida ape-

nas depois que a calculadora já armazena, na pilha operacional, o resultado da operação de cada um deles.

Nota: a tecla ENTER somente é utilizada para a introdução dos primeiros números. Isso porque, após o segundo número, em cada operação, é dado um comando (somar e subtrair). Assim, a calculadora pode identificar que o número "arrabou". Isso não ocorre quando se introduz o primeiro valor. Portanto, ENTER "informa" à calculadora que o próximo número a ser digitado não constitui mais o primeiro elemento da soma e que ela pode armazenar aquele valor já introduzido na pilha operacional.

TESTE SUA CALCULADORA

Para realizar um teste rápido de funcionamento, proceda da seguinte forma: desligue a calculadora. Com a HP desligada, aperte a tecla correspondente ao sinal de multiplicação [x]. Mantendo a tecla pressionada, tecla [=] e, em seguida, tecla [x]. A calculadora apresentará a mensagem "testing" (processando) e, na sequência, o visor mostrará todos os bits ligados, com o sinal (-) à frente, dez números e todas as funções provisórias, o que demonstra que sua calculadora está em perfeito funcionamento. Apertando qualquer tecla, a máquina voltará ao modo normal.

MEMÓRIA

A memória da HP é constante, ou seja, conserva os dados armazenados mesmo quando a calculadora é desligada. Há 20 memórias, que são armazenadas em registradores numerados de 0 a 9 e de 0 a 9 (coloca-se o ponto antes do número do registrador).

Por exemplo, para armazenar o número 35 no registrador 3 e o número 71 no registrador 1:



Para recuperar os dados:



Manual Da Hp12c Platinum

ML Morrison



Manual Da Hp12c Platinum:

The book delves into Manual Da Hp12c Platinum. Manual Da Hp12c Platinum is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Manual Da Hp12c Platinum, encompassing both the fundamentals and more intricate discussions.

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Ähnlich wirken behandlungen in der nuklearmedizin bei der sogenannten radionuklidtherapie werden strahlende teilchen in den körper gebracht

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web ziel der strahlentherapie ist es tumorzellen zu zerstören und dabei gesundes gewebe so weit wie möglich zu schonen je nach zielsetzung der behandlung unterscheidet man zwischen kurativer und palliativer strahlentherapie bei einer kurativen strahlentherapie ist das ziel die heilung der tumorerkkrankung wenn dieses möglich ist

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web jan 8 2019 radiation therapy kills cancer cells or slows their growth by damaging their dna radiation therapy also called radiotherapy is a cancer treatment that uses high doses of radiation to kill cancer cells and shrink tumors at low doses radiation is used in x rays to see inside your body as with x rays of your teeth or broken bones

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web mar 21 2018 bestrahlung strahlentherapie eine bestrahlung ist eine behandlung mithilfe ionisierender strahlen zum beispiel ultraharten röntgenstrahlen oder radioaktiven strahlen die bestrahlung bei krebs soll tumorzellen zerstören

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web bei einer strahlentherapie auch radiotherapie oder radiatio genannt werden ionisierende strahlen eingesetzt um krebszellen zu zerstören sie kann als alleinige behandlungsmethode in kombination mit einer chemotherapie radiochemotherapie und nach adjuvant oder vor neoadjuvant einer operation durchgeführt werden

bfs was ist strahlentherapie bundesamt für strahlenschutz - Dec 27 2022

web die strahlentherapie radiotherapie stellt neben operation und chemotherapie die dritte säule der modernen krebstherapie dar durch die behandlung mit ionisierender strahlung werden tumoren unter kontrolle gehalten oder zerstört
types of radiation therapy how they work and what to expect - Sep 23 2022

web apr 7 2021 summary radiation therapy is the term for treatment types that use radiation to destroy or shrink cancer cells and tumors the two main types of radiation therapy for treating cancer are external

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web oct 27 2023 founded in 1912 and published monthly strahlentherapie und onkologie is a scientific journal that covers all aspects of oncology with focus on radiooncology radiation biology and radiation physics the articles are of interest not only to radiooncologists but to all physicians interested in oncology as well as to radiation

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web feb 22 2018 definition unter strahlentherapie versteht man in der medizin das medizinische fachgebiet der strahlentherapie maligner erkrankungen das auch als radioonkologie bezeichnet wird die gezielte bestrahlung radiotherapie von krebspatienten aus therapeutischen oder palliativen gründen

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web jun 19 2023 die palliative strahlentherapie soll für patienten für die es keine heilchancen mehr gibt krebsbedingte schmerzen und andere symptome lindern können indem die anzahl der krebszellen reduziert wird primäres ziel dabei ist die verbesserung der lebensqualität nicht aber die verlängerung der lebenszeit des patienten

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web eine strahlentherapie ist notwendig um lokalisierbaren sichtbaren oder unsichtbaren krebsbefall abzutöten ziel ist es die patienten von der krebserkrankung zu heilen oder bei unheilbaren krebserkrankungen die symptome zu lindern

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