

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)
$a+b$	$a+b$	$ab+$
$\frac{a+b}{c}$	$(a+b)/c$	$ab+c/$
$\frac{a-b-cd}{ef}$	$(a-b-cd)/ef$	$ab*cd*-ef/$

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	Preparar	Após a operação
[ON]	T	Limpa os registros
[C]	X	
[CE]	Y	
[M+]	X	O número 4 aparece no visor
[M-]	T	
[M]	X	O número 4 é "empilhado" em Y, mostrando cópia provisória em X
[MC]	Y	O número 6 substitui a cópia provisória em X
[MR]	X	
[M+] (segunda)	T	
[M+] (primária)	Z	
[M+] (terceira)	Y	
[M+] (quarta)	X	
[M+] (quinta)	T	
[M+] (sexta)	Z	
[M+] (sétima)	Y	
[M+] (oitava)	X	
[M+] (nona)	T	
[M+] (décima)	Z	
[M+] (undécima)	Y	
[M+] (duodécima)	X	
[M+] (tridecimo)	T	
[M+] (quatorze)	Z	
[M+] (quinze)	Y	
[M+] (dezesseis)	X	
[M+] (dezesete)	T	
[M+] (dezoito)	Z	
[M+] (dezanove)	Y	
[M+] (vinte)	X	
[M+] (vinte e um)	T	
[M+] (vinte e dois)	Z	
[M+] (vinte e três)	Y	
[M+] (vinte e quatro)	X	
[M+] (vinte e cinco)	T	
[M+] (vinte e seis)	Z	
[M+] (vinte e sete)	Y	
[M+] (vinte e oito)	X	
[M+] (vinte e nove)	T	
[M+] (trinta)	Z	
[M+] (trinta e um)	Y	
[M+] (trinta e dois)	X	
[M+] (trinta e três)	T	
[M+] (trinta e quatro)	Z	
[M+] (trinta e cinco)	Y	
[M+] (trinta e seis)	X	
[M+] (trinta e sete)	T	
[M+] (trinta e oito)	Z	
[M+] (trinta e nove)	Y	
[M+] (quarenta)	X	
[M+] (quarenta e um)	T	
[M+] (quarenta e dois)	Z	
[M+] (quarenta e três)	Y	
[M+] (quarenta e quatro)	X	
[M+] (quarenta e cinco)	T	
[M+] (quarenta e seis)	Z	
[M+] (quarenta e sete)	Y	
[M+] (quarenta e oito)	X	
[M+] (quarenta e nove)	T	
[M+] (cinquenta)	Z	
[M+] (cinquenta e um)	Y	
[M+] (cinquenta e dois)	X	
[M+] (cinquenta e três)	T	
[M+] (cinquenta e quatro)	Z	
[M+] (cinquenta e cinco)	Y	
[M+] (cinquenta e seis)	X	
[M+] (cinquenta e sete)	T	
[M+] (cinquenta e oito)	Z	
[M+] (cinquenta e nove)	Y	
[M+] (sessenta)	X	
[M+] (sessenta e um)	T	
[M+] (sessenta e dois)	Z	
[M+] (sessenta e três)	Y	
[M+] (sessenta e quatro)	X	
[M+] (sessenta e cinco)	T	
[M+] (sessenta e seis)	Z	
[M+] (sessenta e sete)	Y	
[M+] (sessenta e oito)	X	
[M+] (sessenta e nove)	T	
[M+] (setenta)	Z	
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[M+] (oitenta)	X	
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[M+] (oitenta e oito)	X	
[M+] (oitenta e nove)	T	
[M+] (noventa)	Z	
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[M+] (noventa e dois)	X	
[M+] (noventa e três)	T	
[M+] (noventa e quatro)	Z	
[M+] (noventa e cinco)	Y	
[M+] (noventa e seis)	X	
[M+] (noventa e sete)	T	
[M+] (noventa e oito)	Z	
[M+] (noventa e nove)	Y	
[M+] (cem)	X	
[M+] (cem e um)	T	
[M+] (cem e dois)	Z	
[M+] (cem e três)	Y	
[M+] (cem e quatro)	X	
[M+] (cem e cinco)	T	
[M+] (cem e seis)	Z	
[M+] (cem e sete)	Y	
[M+] (cem e oito)	X	
[M+] (cem e nove)	T	
[M+] (duzentos)	Z	
[M+] (duzentos e um)	Y	
[M+] (duzentos e dois)	X	
[M+] (duzentos e três)	T	
[M+] (duzentos e quatro)	Z	
[M+] (duzentos e cinco)	Y	
[M+] (duzentos e seis)	X	
[M+] (duzentos e sete)	T	
[M+] (duzentos e oito)	Z	
[M+] (duzentos e nove)	Y	
[M+] (trezentos)	X	
[M+] (trezentos e um)	T	
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[M+] (quatrocentos e sete)	T	
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[M+] (quatrocentos e nove)	Y	
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[M+] (quinhentos e um)	T	
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[M+] (novecentos e oito)	X	
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[M+] (nove mil e cinco)	Y	
[M+] (nove mil e seis)	X	
[M+] (nove mil e sete)	T	
[M+] (nove mil e oito)	Z	
[M+] (nove mil e nove)	Y	
[M+] (dez mil)	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.

Vejaamos a seguinte expressão:

$$(7+3) + (15-4)$$

Enquanto em uma calculadora algébrica (convencional) é necessário realizar cada operação colocada entre parênteses de uma vez e mostrar 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 "armazena". 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 15 no registrador 3 e o número 71 no registrador 1:



Para recuperar os dados:



Manual Da Hp12c

Yijin Wang



Manual Da Hp12c:

Manual Da Hp12c Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Manual Da Hp12c**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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