## Subject: Re: Solving equation with Monte Carlo simulation Posted by John H West on Thu, 21 Jan 1999 08:00:00 GMT

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Jean Marc Zanotti wrote:
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> I'm looking for a Monte-Carlo programm (C, Fortran, IDL...) that
  could be used to solve the following problem:
>
       F(w)=Integration(G(w,u).H(u), u=-infinity, +infinity)
>
>
       The functions F(w) is known numerically.
>
       G(w,u) is of the form:
>
            G(w,u)=Sigma(u)*exp(-(1/sigma(u)^2)*(w+delta(u))^2)
>
            where Sigma(u) and delta(u) are two functions of u.
>
  The problem is to find numerically, h(t), the Fourier transform of H.
  It seems difficult to apply the convolution theorem.
>
 If someone has experience, information or a clever idea on the way to
  solve this sort of problems, please tell me,
  Thank you.
> JMarc
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\_Numerical\_Recipes\_in\_C\_ has, according to the index, several references listed under "Monte Carlo"

Take a look in http://www.nr.com, or see if you can find a copy of the text local to you.

john