

# The Finite Difference Method In Partial Differential Equations By A. R. Mitchell;D. F. Griffiths

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1 1990 13 A.R. Mitchell, D.F. Griffiths, The Finite Difference Method in Partial Differential Equations. Difference Method in Partial Differential

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finite-difference methods, imaginary-distance procedure, implicit schemes, optical waveguides, Yee s mesh. I. INTRODUCTION E VALUATION of the modal

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Mitchell, A. R./Griffiths, D. F., The Finite Difference Method in Partial Differential Equations. Chichester-New York-Brisbane-Toronto, John Wiley & Sons 1980 XII

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I've been looking around in Numpy/Scipy for modules containing finite difference functions. However, the closest thing I've found is `numpy.gradient()`, which is good

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[3] A. R. Mitchell and D. F. Griffiths, The finite difference method in partial differential equations, John Wiley, New York, 1980.

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A finite difference is a mathematical expression of the form  $\frac{f(x + b) - f(x + a)}{b - a}$ . If a finite difference is divided by  $b - a$ , one gets a difference quotient.

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