

A STUDENT'S GUIDE TO

PYTHON

FOR PHYSICAL MODELING
SECOND EDITION

JESSE M. KINDER
PHILIP NELSON

```
def plot_mandelbrot():
    """Plot the Mandelbrot set using NumPy and Matplotlib"""
    # Define the range of x and y values
    x_min, x_max = -2.0, 1.0
    y_min, y_max = -1.0, 1.0
    dx = 0.001
    dy = 0.001

    # Create arrays for x and y coordinates
    x = np.arange(x_min, x_max, dx)
    y = np.arange(y_min, y_max, dy)

    # Create a 2D array for the Mandelbrot set
    data = np.zeros((x.size, y.size), dtype=int)

    # Iterate over each point in the grid
    for i in range(x.size):
        for j in range(y.size):
            x0, y0 = x[i], y[j]
            x, y = x0, y0
            count = 0
            while count < max_iterations:
                x, y = (x0 + x*x - y*y, y0 + 2*x*y)
```

A Students Guide To Python For Physical Modeling

Eva H. Dodsworth



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