

A STUDENT'S GUIDE TO

PYTHON

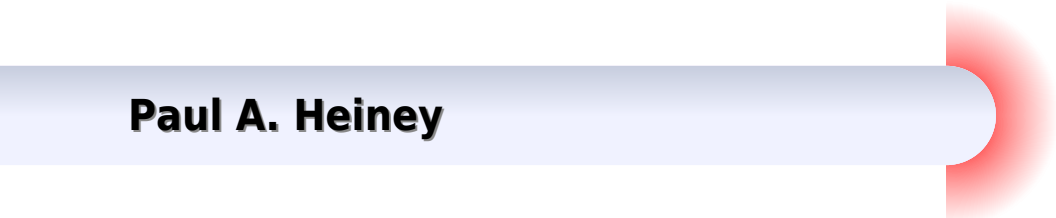
FOR PHYSICAL MODELING
SECOND EDITION

JESSE M. KINDER
PHILIP NELSON

```
def plot_mandelbrot(N):
    """Plot the Mandelbrot set using N iterations"""
    # Define the range of the complex plane
    x_min = -2.002
    x_max = 1.002
    y_min = -1.002
    y_max = 1.002
    # Create arrays for the complex plane
    X = np.arange(x_min, x_max, dx)
    Y = np.arange(y_min, y_max, dy)
    data = np.zeros((X.size, Y.size), dtype=
        1 + 1j)
    # Iterate over the complex plane
    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

Paul A. Heiney



A Students Guide To Python For Physical Modeling:

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