

Princeton  
Computer Science

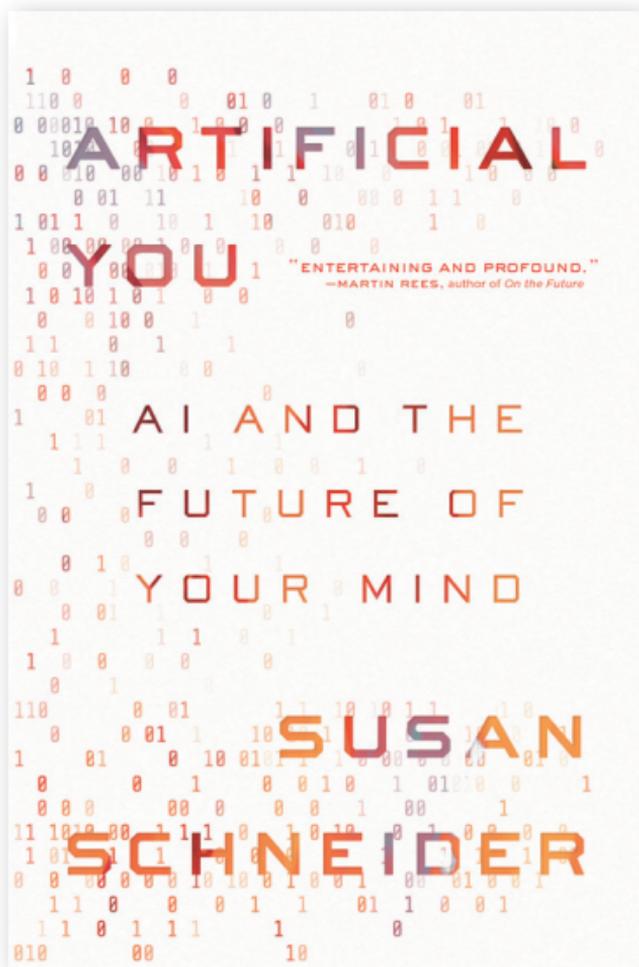
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# Computer Science

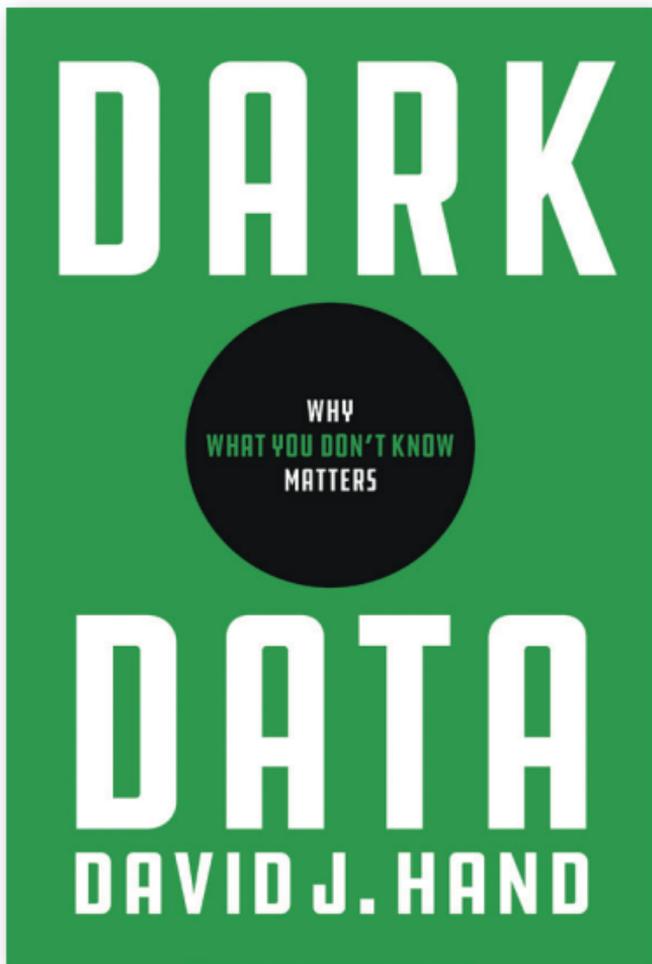
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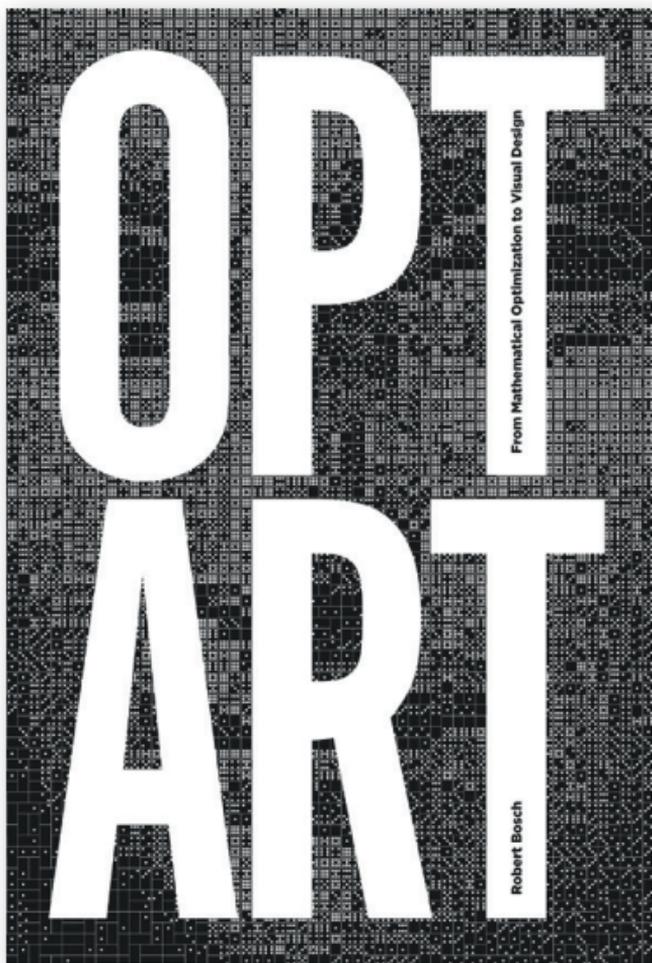
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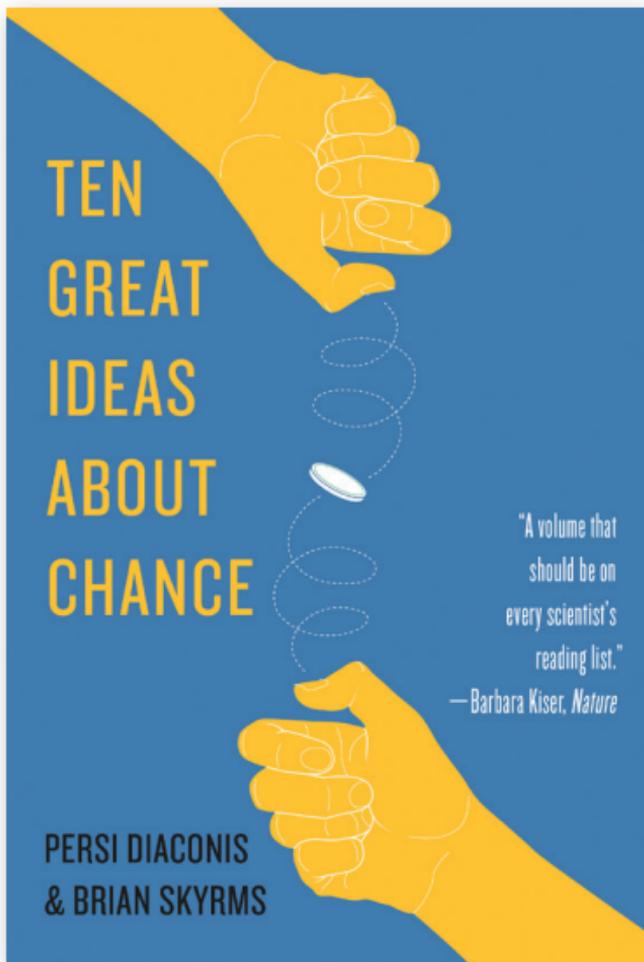
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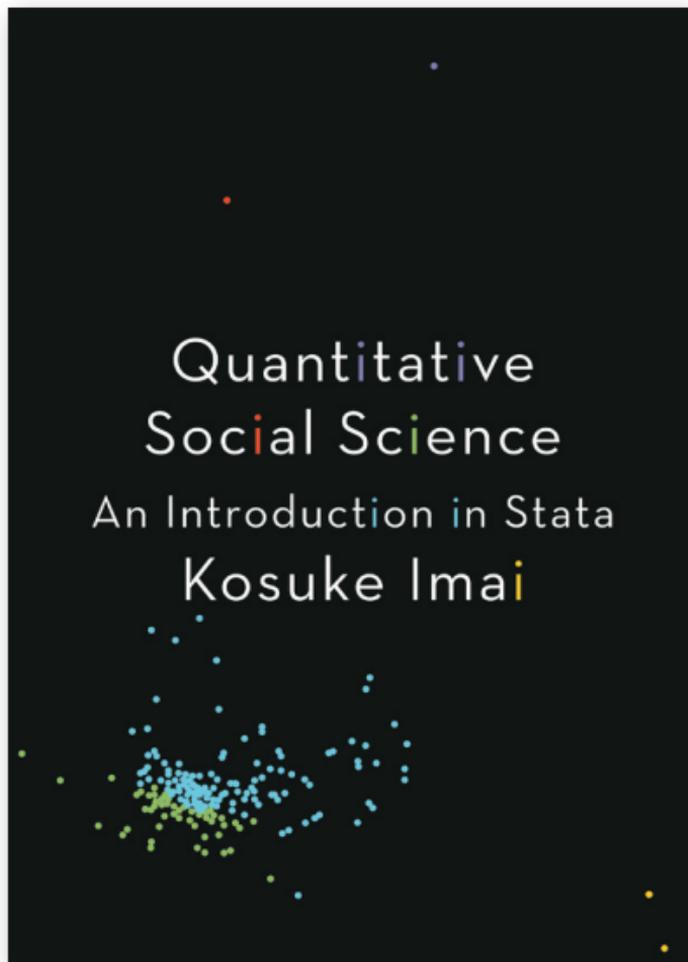
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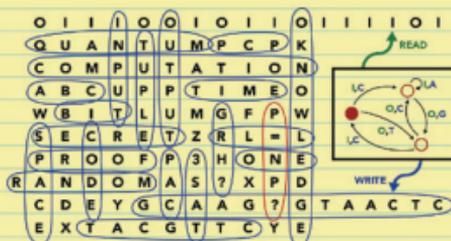
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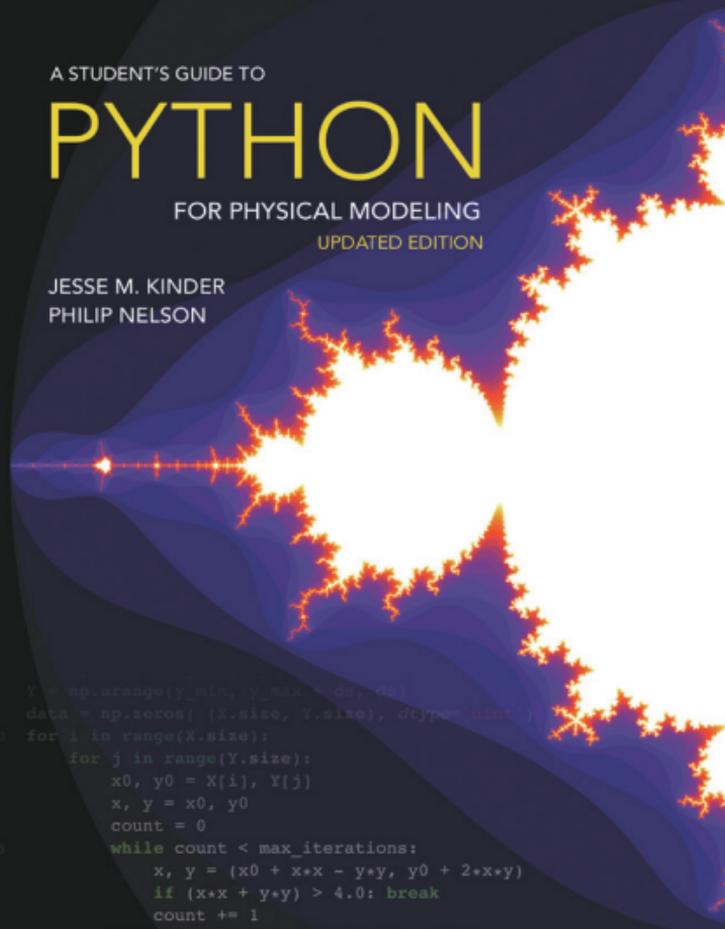
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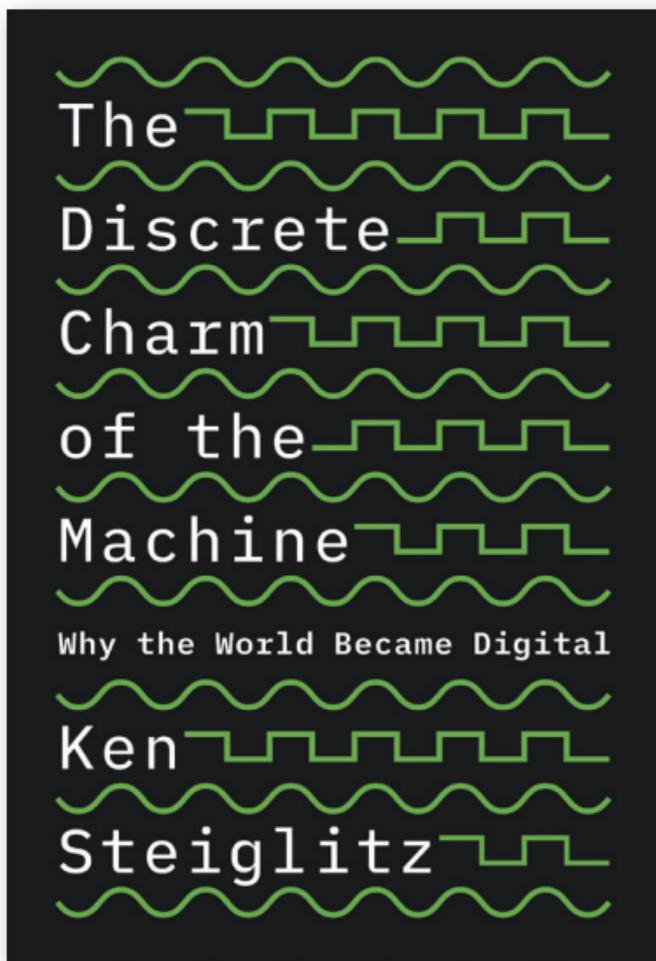
PHILIP NELSON



```
Y = np.arange(y_min, y_max + da, da)
data = np.zeros( (X.size, Y.size), dtype=float )
10 for i in range(X.size):
    for j in range(Y.size):
        x0, y0 = X[i], Y[j]
        x, y = x0, y0
        count = 0
15 while count < max_iterations:
    x, y = (x0 + x*x - y*y, y0 + 2*x*y)
    if (x*x + y*y) > 4.0: break
    count += 1
    data[i, j] = max_iterations - count
```

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# WHAT CAN BE COMPUTED?

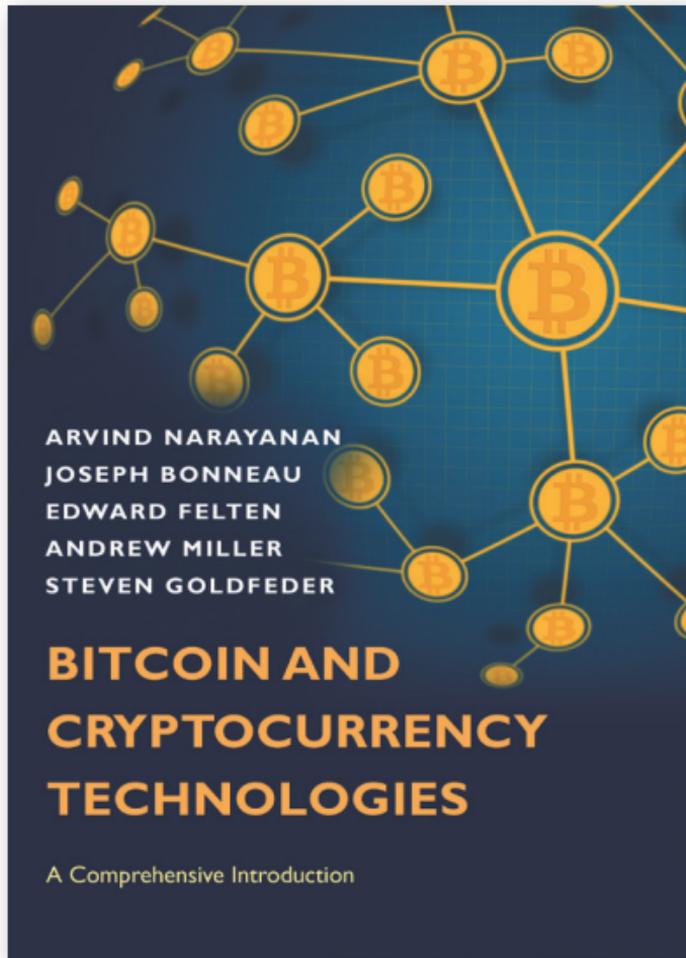
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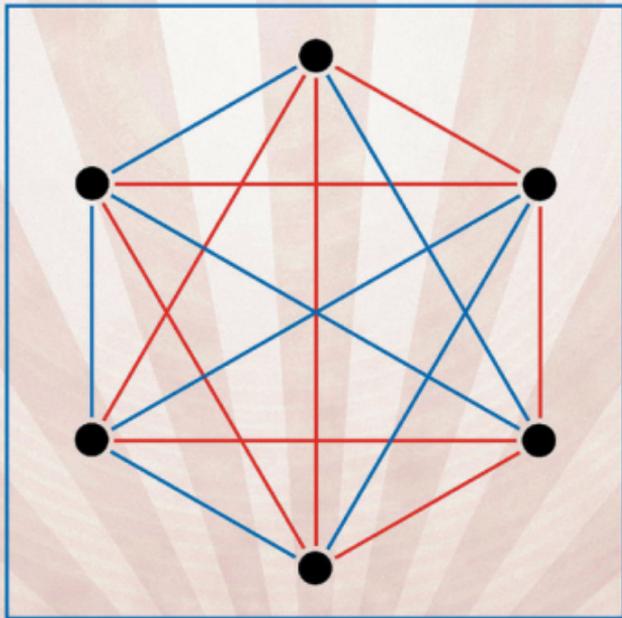
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