



# **X and the City: Modeling Aspects of Urban Life**

*John A. Adam*

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# X and the City: Modeling Aspects of Urban Life

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## X and the City: Modeling Aspects of Urban Life John A. Adam

*X and the City*, a book of diverse and accessible math-based topics, uses basic modeling to explore a wide range of entertaining questions about urban life. How do you estimate the number of dental or doctor's offices, gas stations, restaurants, or movie theaters in a city of a given size? How can mathematics be used to maximize traffic flow through tunnels? Can you predict whether a traffic light will stay green long enough for you to cross the intersection? And what is the likelihood that your city will be hit by an asteroid?

Every math problem and equation in this book tells a story and examples are explained throughout in an informal and witty style. The level of mathematics ranges from precalculus through calculus to some differential equations, and any reader with knowledge of elementary calculus will be able to follow the materials with ease. There are also some more challenging problems sprinkled in for the more advanced reader.

Filled with interesting and unusual observations about how cities work, *X and the City* shows how mathematics undergirds and plays an important part in the metropolitan landscape.

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