

Numerical Analysis of Burger's Equation*

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1 Introduction

Consider the initial value problem

$$\begin{cases} u_t + uu_x = 0 \\ u(x, 0) = g(x) \end{cases}$$

References

- Choksi, R. (2022). *Partial differential equations: A first course*. American Mathematical Society.
- Kutz, J. N. (2013). *Data-driven modeling & scientific computation: Methods for complex systems & big data*. Oxford University Press.

*Placeholder title!