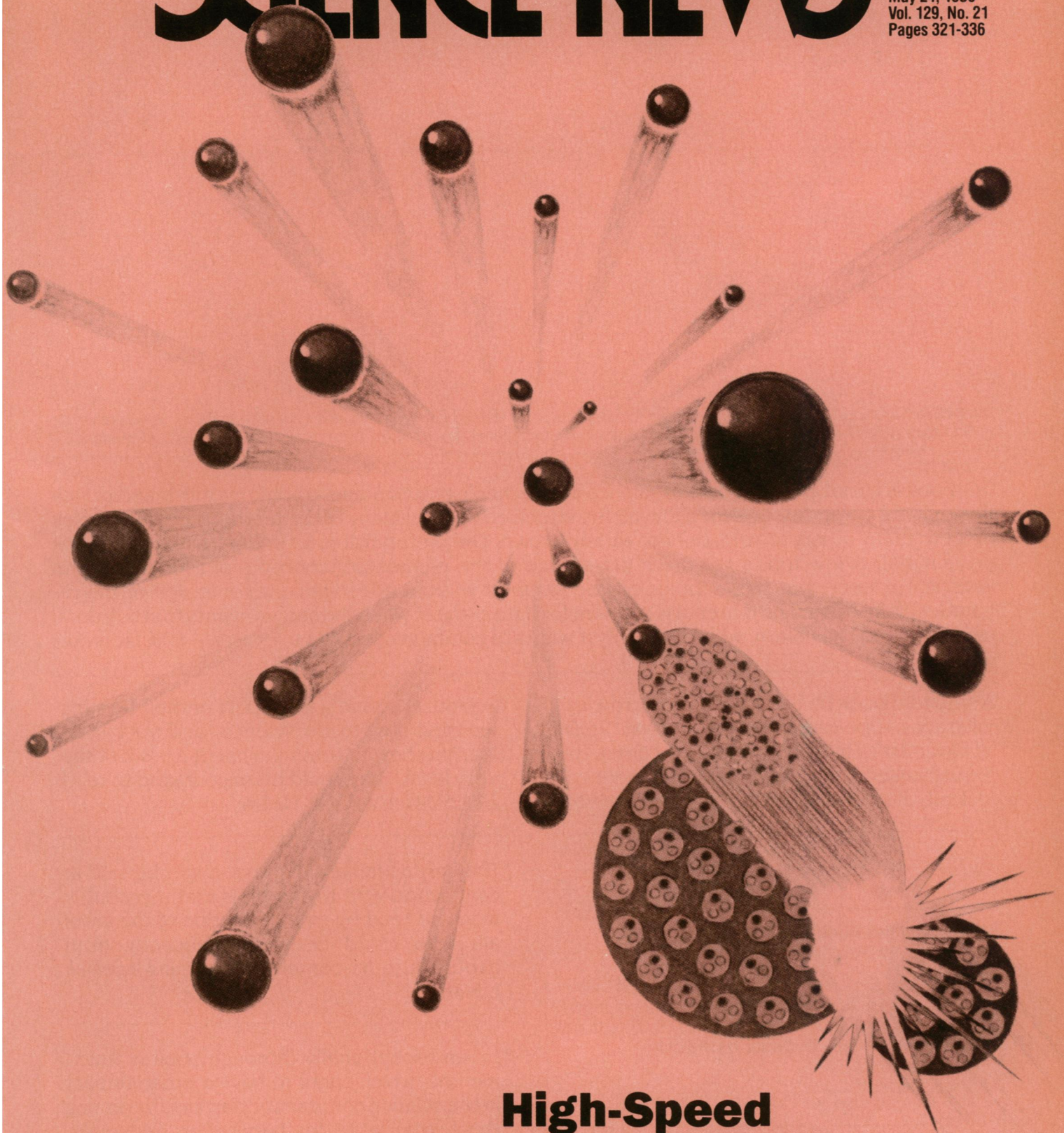


The Weekly Newsmagazine of Science

SCIENCE NEWS

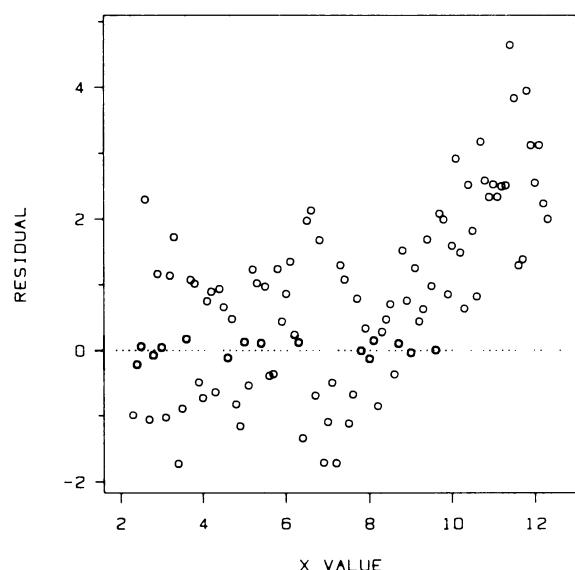
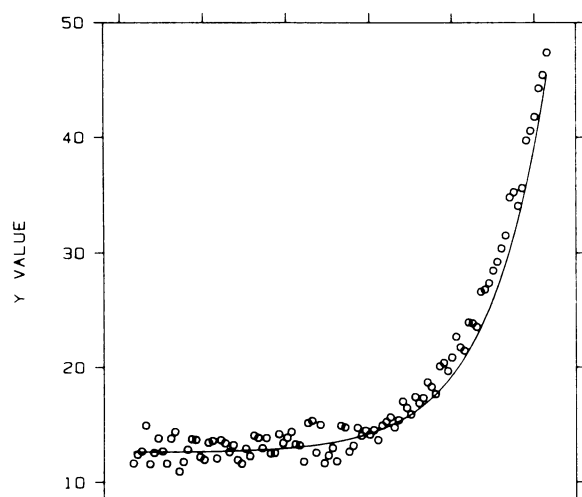
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High-Speed Nuclear Crash

The Elements of Graphing Data

William S. Cleveland



GRAPHIC RESIDUALS: The visual impression from the left panel is that the vertical deviations of the points from the curve are greater for small x values than for large ones. The graph of residuals in the right panel shows the opposite is true. (Data courtesy of Cleveland).

This book is about graphing data in science and technology. It contains graphic methods and principles that are powerful tools for showing the structure of data. Many of the methods and principles are new; many others are old, but not widely known. The prerequisites for understanding the book are minimal. A few topics require a knowledge of the elementary concepts of probability and statistical science, but these topics can be skipped without affecting comprehension of the remainder of the book. The material is relevant for data *analysis*, when the analyst wants to study data, and for data *communication*, when the analyst wants to communicate data to others. — *from the preface*

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David Berlinski

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