

Always Wanted to Fly the Space

An authentic, authoritative guide for would-be pilots and passengers.

Everyone recognizes the enormous technical achievements of the Shuttle, but few people understand how it operates. Now that information gap has been filled by this unique and fascinating

The Space Shuttle Operator's Manual is written in clear, simple language by experts in the field. It is abundantly illustrated with line drawings, maps, and photographs.

The Manual is divided into six sections:

From Earth to Orbit - step-by-step instructions for launch and ascent, linked to a 4-color gatefold reproduction of the Shuttle's instrument panel, as well as typical radio exchanges between pilot and ground control.

Living in Space - what to wear and how to get dressed, how to eat, sleep, drink and stand, personal hygiene, and gravity.

Working in Space - how to operate each part of the machine (the remote manipulator arm, the space telescope, etc.).

Emergency Procedures - launch aborts, inflight vehicle plights, and medical and technical emergencies.

Entry and Landing Procedures — preparations for return and a

Space Shuttle missions — listing all of the Shuttle's capabilities, including Satellite Repair, Communications Satellite Deployment, Spacelab, and many more

And also 40 pages of appendices giving complete structural specifications of the craft and its systems, a glossary of NASA terms and acronyms, and a plan of the Kennedy Space Center.



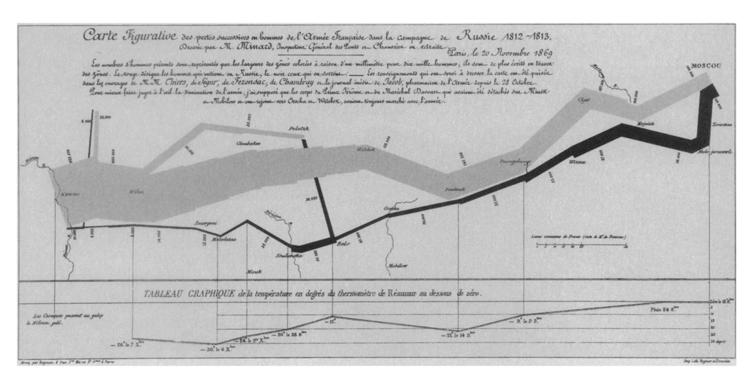
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The Visual Display of Quantitative Information EDWARD R. TUFTE



This map, drawn by the French engineer Charles Joseph Minard in 1869, portrays the losses suffered by Napoleon's army in the Russian campaign of 1812. Beginning at the left on the Polish-Russian border near the Niemen, the thick band at the top shows the size of the army (422,000 men) as it invaded Russia in June 1812. The width of the band indicates the size of the army at each position. In September, the army reached Moscow, which was by then sacked and deserted, with 100,000 men. The path of Napoleon's retreat from Moscow in the bitterly cold winter is depicted by the dark lower band, which is tied to a temperature scale (note how the path of retreating army and the temperature line move in parallel). The remains of the Grande Armée struggled out of Russia with only 10,000 men. Minard displayed six dimensions of data on the two-dimensional surface of the paper. It may well be the best statistical graphic ever drawn.

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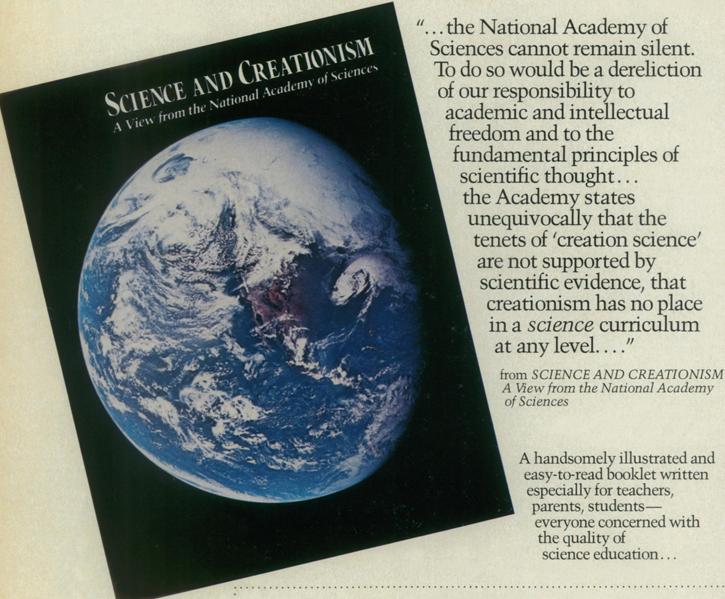
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