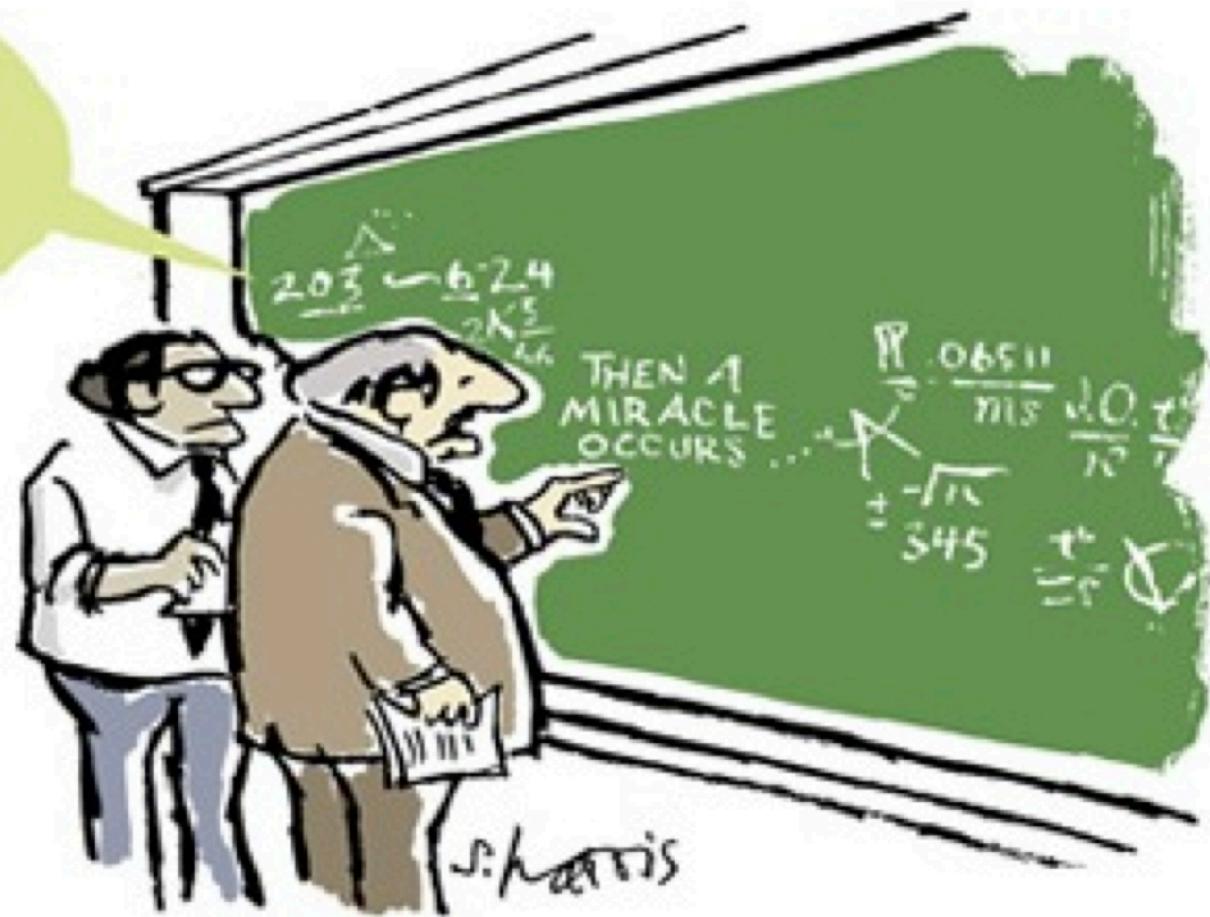


Digitization (or Digitisation)

John Leslie King
University of Michigan

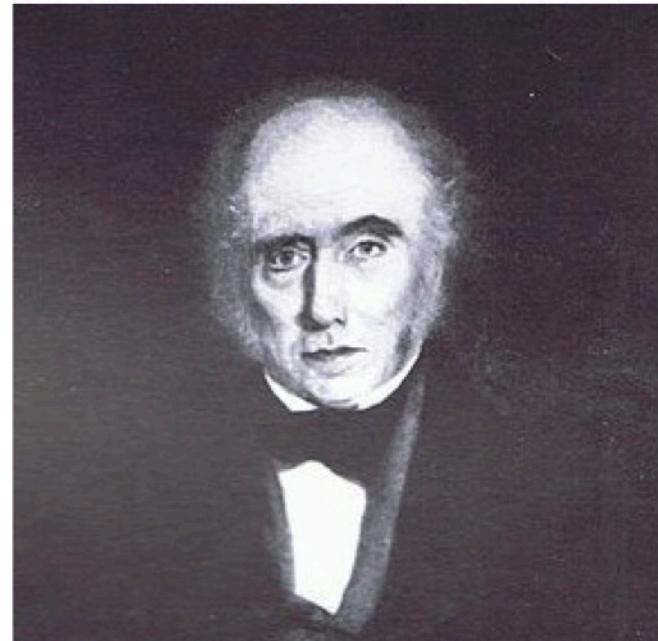
I THINK YOU
SHOULD BE MORE
SPECIFIC HERE IN
STEP TWO



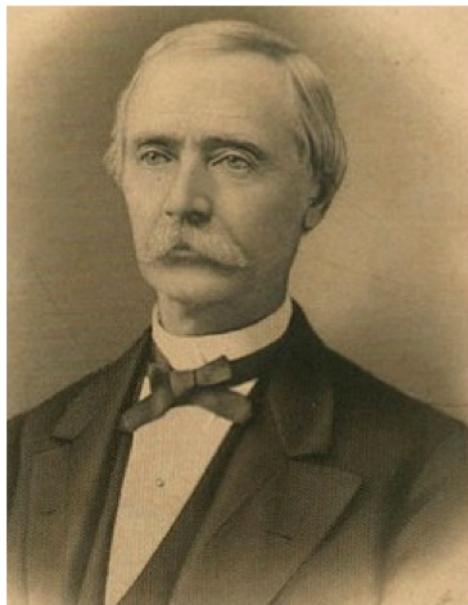




Henry Bessemer



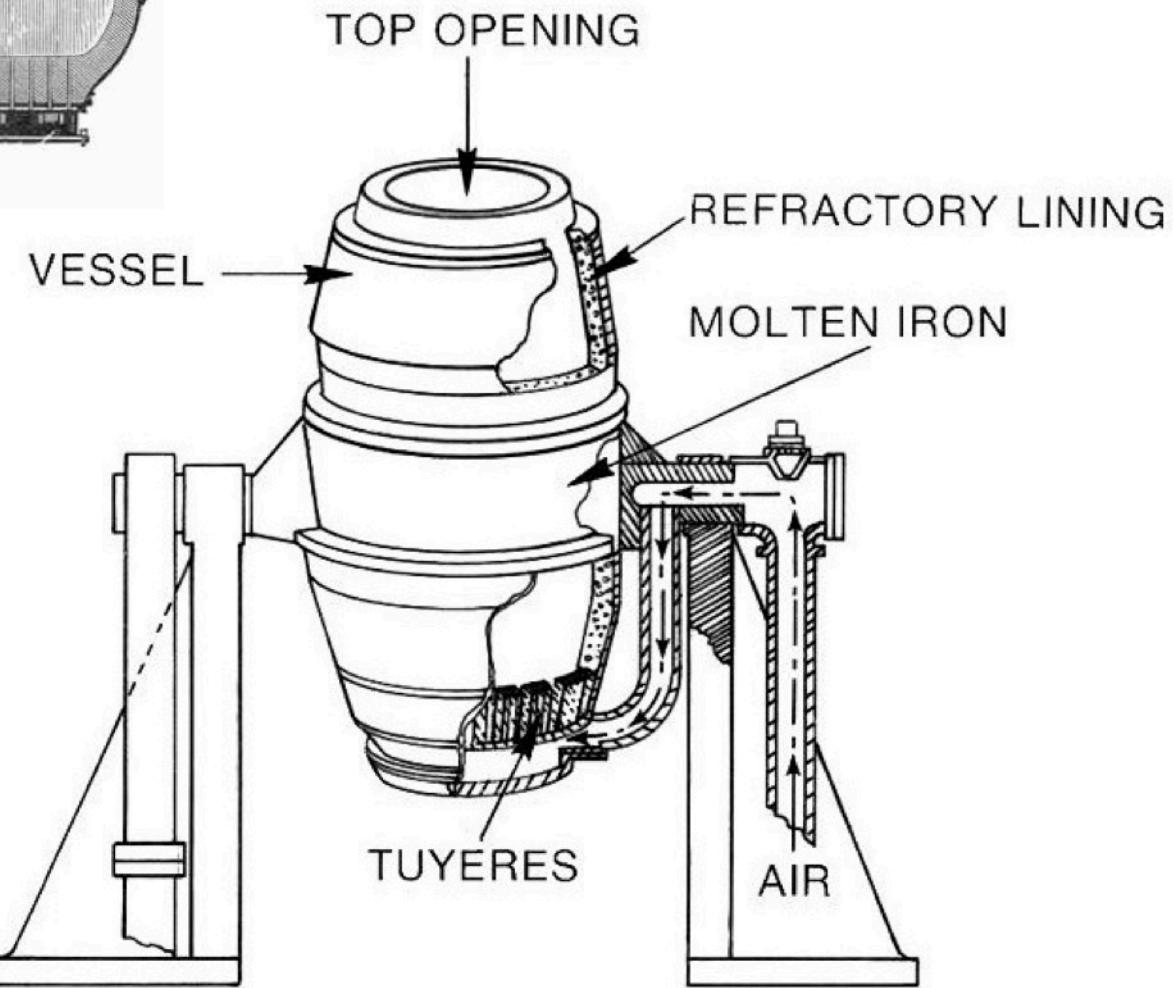
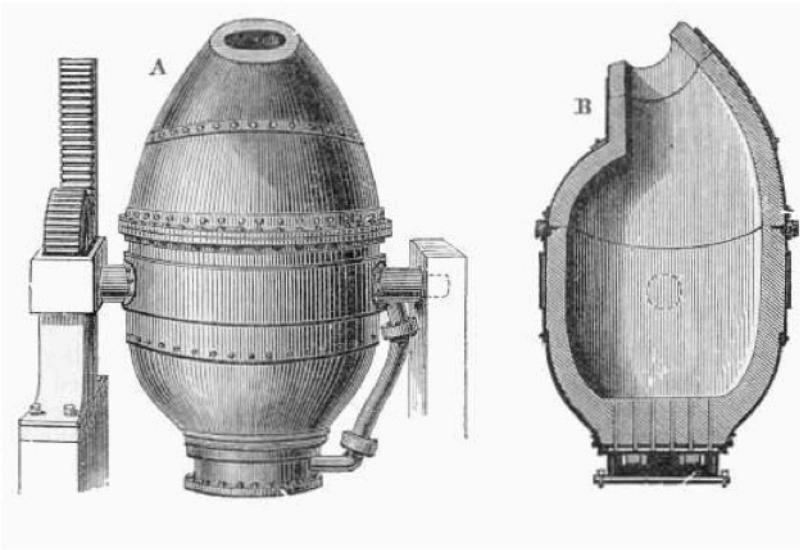
David Mushet



William Kelly



Robert Mushet



Upshot

- 1860-1960 (after: basic oxygen process)
- Reduced cost by a factor of 7; = cast iron
- Transport, buildings, industry, modernity
- An ecological perspective



Analog —————→ Digital

What's the miracle?

Continuous Mathematics —————→ Discrete Mathematics

Signal Processing

Pattern Recognition



digital

COMPAQ



altavista™ *Google*™

10 months

The Digitization Ecology

- Asset utilization
 - Remember acoustic couplers, 300 baud?
 - Pattern matching on content
- New products and services
 - Pattern matching by time (advertising, location)
- Transaction costs
 - Privacy
 - Getting paid