

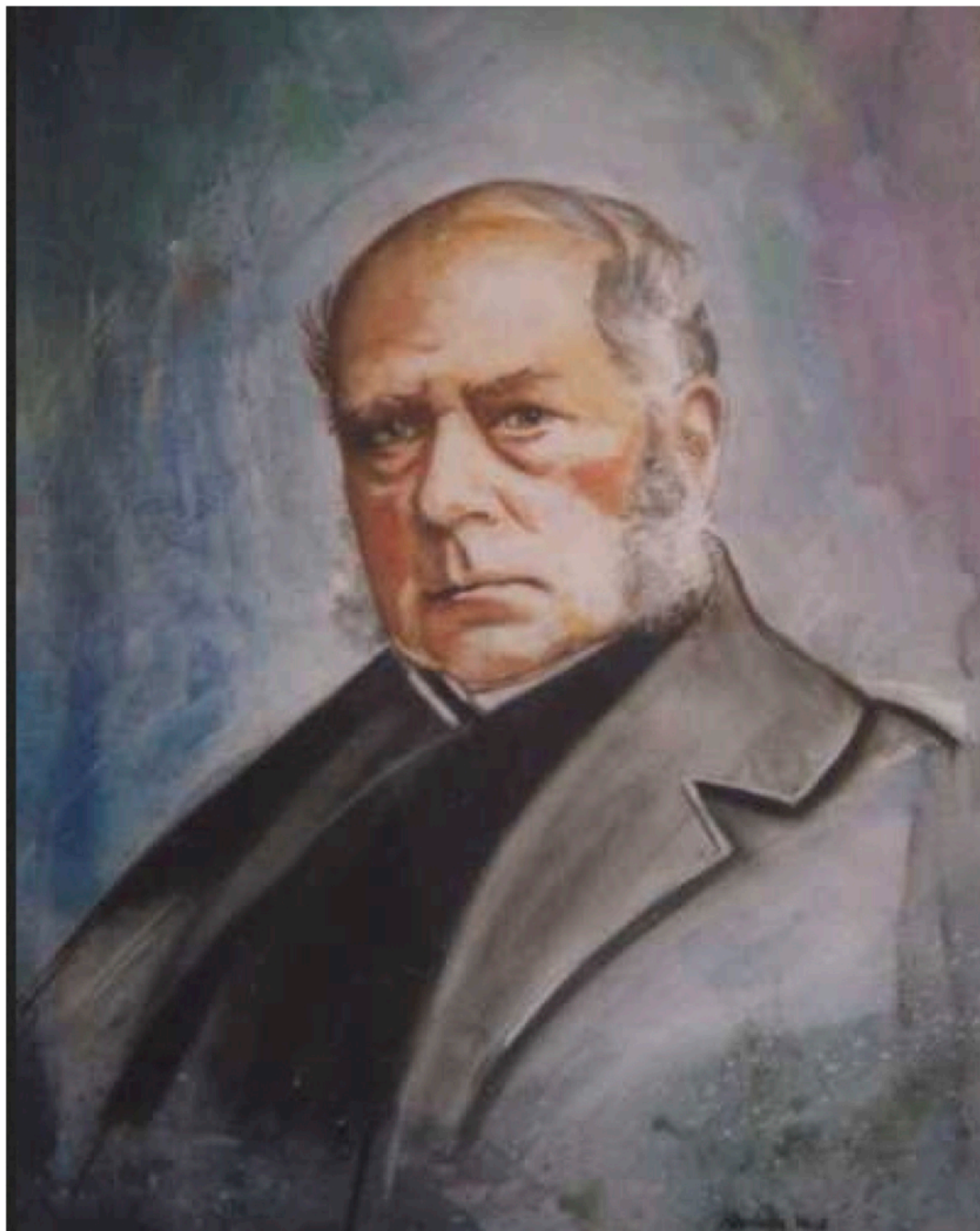
# Digitization (or Digitisation)

John Leslie King

University of Michigan

I THINK YOU  
SHOULD BE MORE  
SPECIFIC HERE IN  
STEP TWO



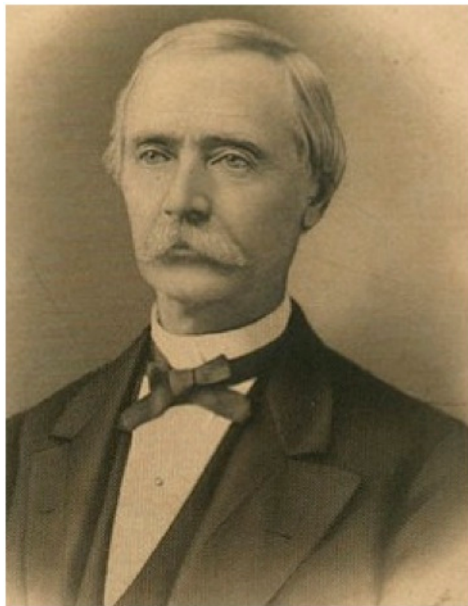




Henry Bessemer



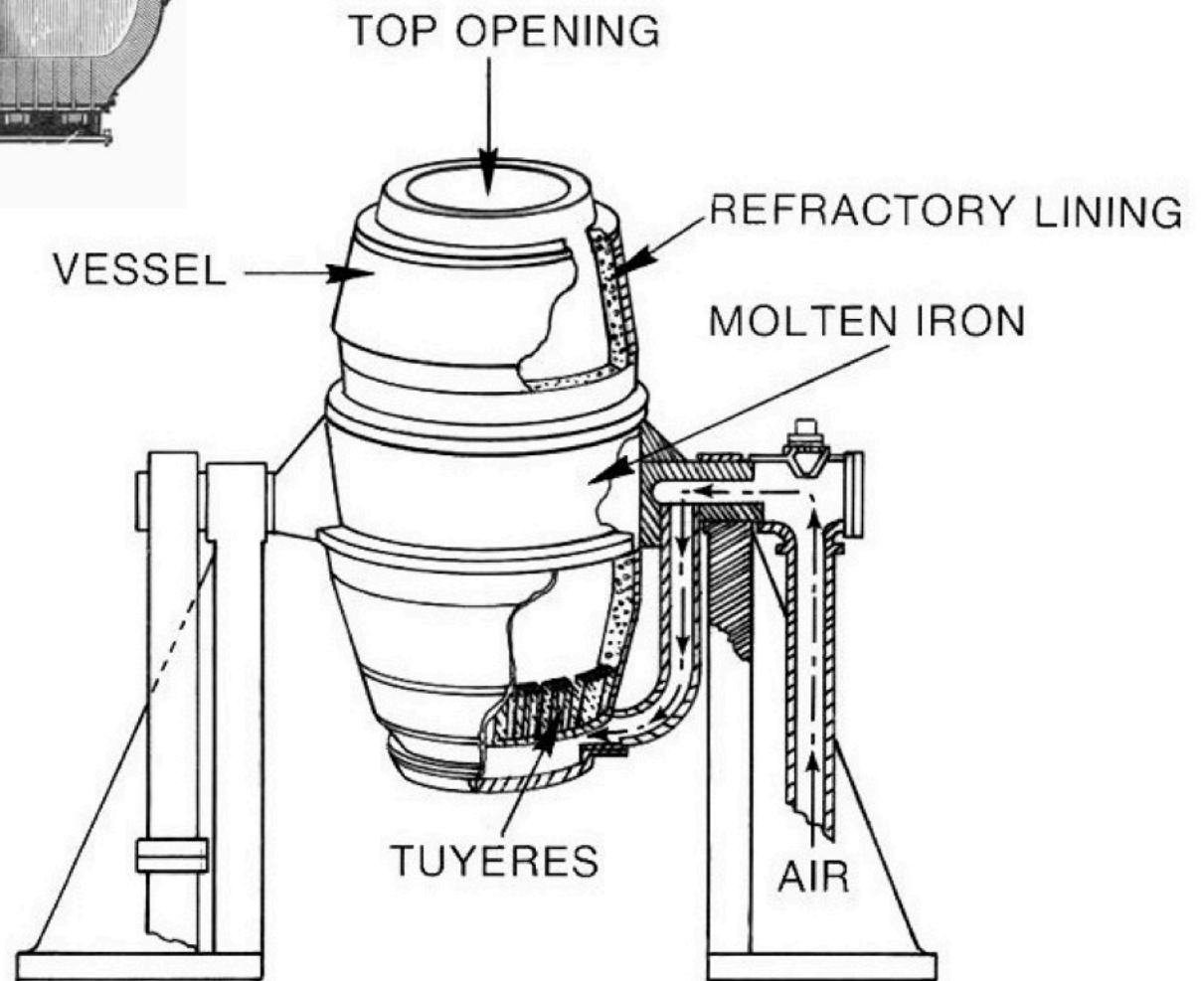
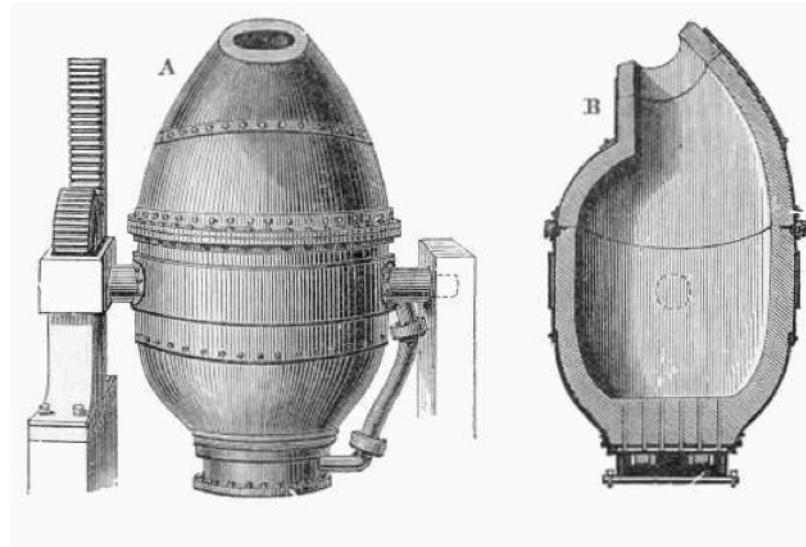
David Mushet



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



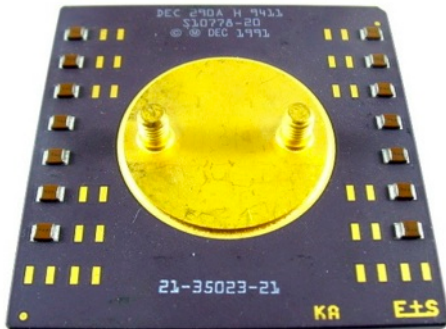
Discrete  
Mathematics

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