Reinventing Education

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A Non-Profit Venture

~1.4M Learners from all Countries in the World

*MIT and Harvard have committed $60M to the venture

- Increase access to learning worldwide
- Improve on-campus education
- Learning pedagogy research
- Open source platform

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155,000 Students Enrolled in First Course

- 154,763 Registered for 6.002x: Circuits and Electronics
- 10,547 Made it the Mid-Term
- 9,318 Passed the Mid-Term
- 26,349 Tried the First Problem Set
- 8,240 Took the Final
- 7,157 Certified
PART 1: TODAY: SEARCH IN THE PRESENCE OF UNCERTAINTY

Worst-Case vs. Average Case

Idea: Uncertain outcomes controlled by chance, not an adversary!
H1P2: DECOMPOSITION OF AMMONIUM NITRATE

Solid NH₄NO₃ (ammonium nitrate) decomposes on heating to 400°C, forming N₂O gas and water vapor, H₂O.

(a) Write a balanced chemical equation.

(b) Calculate the number of grams of H₂O that will form on decomposition of 0.10 mole of ammonium nitrate.
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Oh god; have I missed you... :~}
Virtual Game-Like Laboratory
CIRCUIT SANDBOX

Here’s a sandbox where you can experiment with all the components we’ll discuss in 6.002x. If you click on CHECK below, your diagram will be saved on the website and you can return at some later time.
Educational Impact

Prof. Peng, Tsinghua U.
What do Students Visit First?

Homeworks

Videos

Research with Learning Big Data