


#### 4. $\mathcal{P}_{/\text{poly}}$ and $\mathcal{NP}$ : Karp-Lipton Theorem

#### 5. Circuit lower (and upper) bounds

See

 Sanjeev Arora, Boaz Barak:  
*Computational Complexity — A Modern Approach*,  
p. 106–107, Cambridge University Press: Cambridge-New York-Melbourne, 2009

 G.S. Frandsen and P. Bro Miltersen:  
*Reviewing bounds on the circuit size of the hardest functions*,  
IPL **95** (2005), p. 354–357

## 6. Non-uniform hierarchy theorem

## 7. Finer gradations among circuit classes

## 8. Circuits of exponential size

See

 [Sanjeev Arora, Boaz Barak:](#)  
*Computational Complexity — A Modern Approach,*  
p. 108–113, Cambridge University Press: Cambridge-New York-Melbourne, 2009