Discrete vs. Integrated circuit design

Discrete	Integrated
- Board-level system	+ Chip-level system
- Devices "Take what you get"	+ Control over device geometry
- Matching difficult	+ Matching inherent
+ Precise values possible	- Absolute values vary widely
+ Large R, C possible	- Largest C $\approx$ 100pF; large R bad
+ Many types of components	- Limited to types in process
+ Possible to breadboard	- Can't breadboard; simulation