

_ Motivation
Why don't
computer, wale
conjuter, wale
- why are they heating up?
- overage AI
training run
~1-10MW
& losts for day

Modeling

Lagic: consist of transferters.

Transister: NMOS/PMOS
modeled as switches
+ R&C

G TR

RC-time contests of delays Power spent on R Math

Diff. equation.

 $\frac{1}{1+} \times (+) = \lambda \times (+) + u(+)$ 

\* Solve by guers de chade

\* Bored on uniqueners proofs

Transformation:

1) Change of variables

2) Discretization dimits

Motivation

How con we

& keen the

signal 7

Another persper	tive: By Hemes & potterns let
(1) Reductions (	the most important theme of 16BD
	you don't yet know how to solve.  (5) you know how to solve.  Solve bourg. diff. eye.  Grees tobale
* Derivatives	Sobre bourg. diff. eye. Gress tobels
*	cheye-of voriolles
	riece-mise de limit
₹= V×	X: 1
Eigenbosit	(when it works): reduces to t of porollel problem (scalar)
a 50	t of porollel problem (scalar)
Orthonormal	basis: Presere length, angles
	easy inverses (conj. tronsport
	easy projections.

Phasors ore what mix of tronsfernding? (15)

- coordinte chaze
- lineorization (if needed)
- Eigenbass.
- (out-of-score) orthonornal bosis