







genössische Technische Hochschule Zünich 16. Redereil Institutic al Technology Zunich	
Linear St	orage Elements
<u>General capacitive equation:</u>	q = C(e)
<u>Linear capacitive equation:</u>	$q = C \cdot e$
<u>Linear capacitive equation</u> differentiated:	$f = C \cdot \frac{de}{dt}$
	<i>"Normal" capacitive equation, as hitherto commonly encountered.</i>

	Effort	Flow	Generalized Momentum	Generalized Positio
	e	f	р	q
Electrical		Current	Magnetic Flux	Charge
Circuits	<i>u</i> (V)	<i>i</i> (A)	Φ (V·sec)	q (A·sec)
Translational	Force	Velocity	Momentum	Position
Systems		v (m / sec)	M (N·sec)	<i>x</i> (m)
Rotational	Torque	Angular Velocity	Torsion	Angle
Systems		ω (rad / sec)	$T (N \cdot m \cdot sec)$	φ (rad)
Hydraulic	Pressure	Volume Flow	Pressure	Volume
Systems p (1	$p (N/m^2)$	$q (m^3 / sec)$	Momentum	V (m ³)
			Γ (N·sec / m ²)	
Chemical	Chem. Potential	Molar Flow	-	Number of Moles
Systems	μ (J / mol)	v(mol/sec)		<i>n</i> (mol)
Thermodynamic	Temperature	Entropy Flow	-	Entropy
Systems	T (K)	S' (W / K)		S (J / K)

































