









• However, if one eagle can carry one sheep, two eagles can carry two sheep. Consequently, the *force* is an *extensive variable* and therefore should be treated as a *flow variable*.

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Start Presentation

 $\langle \downarrow \downarrow \rangle$ 

October 11, 2012

Effort Technische Hockschule Zinkin Seisen Seiden Hockschule zu Hockschule	ma	thematical Mod	eling of P	hysical Sys	tems
Passiv	e Mecha ond Gra			s in	
$m \qquad \qquad$	$f_I = m \cdot q$	dv /dt —	f <sub>I</sub> v	<u> </u>	: m
$f_B v_1 $	$f_B = B$	• Дv —	f <sub>B</sub> Δv	<u> </u>	<b>X</b> : B
$\xrightarrow{f_k x_1} \bigvee^k \xrightarrow{x_2 f_k}$	$\Delta x = f_k / k$ $\Rightarrow \Delta v = (1)$	$(k) \cdot df_k/dt$	$\frac{f_k}{\Delta v}$		C:1/k
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	References
•	Borutzky, W. and F.E. Cellier (1996), " <u>Tearing</u> <u>Algebraic Loops in Bond Graphs</u> ," <i>Trans. of SCS</i> , <b>13</b> (2), pp. 102-115.
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