1 Variables

2 root

	var	symbol	documentation	type	units	eqs
8	$F_{N,A}$	F_N_A	fudamental incidence matrix	network		
5	$\mid t \mid$	t	time	$_{ m frame}$	s	
6	t^o	to	starting time	$_{ m frame}$	s	4
7	t^e	te	end time	$_{ m frame}$	s	5
1	#	value	numerical value	$\operatorname{constant}$		
2	1	one	numerical value one	constant		1
3	0	zero	numerical value zero	constant		2
4	0.5	onehalf	numerical value one half	constant		3

3 physical

var symbol documentation type units	eqs
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4 control

		var	symbol	documentation	type	units	eqs
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5 reactions

		var	symbol	documentation	type	units	eqs
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6 material

var symbol documentation	type	units	eqs
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7 macroscopic

var symbol documentation	type	units	eqs
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8 solid

var symbol documentation	type	units	eqs
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9 fluid

	var	symbol	documentation	type	units	eqs
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10 liquid

var symbol documentation type units	eqs
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11 gas

var symbol documentation type units	eqs
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12 control-control

	var	symbol	documentation	type	units	eqs
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13 gas-liquid

var symbol documentation type units	eqs
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14 gas-gas

var symbol documentation type units	eqs
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15 liquid-liquid

var symbol documentation	type	units	eqs
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16 gas-solid

var symbol documentation type amos equ	var	symbol	documentation	type	units	eqs
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17 solid-solid

var	symbol	documentation	type	units	eqs
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18 liquid-solid

var symbol documentation	type	units	eqs
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19 material-material

|--|

20 reactions—reactions

var	symbol	documentation	type	units	eqs
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21 control-reactions

var	symbol	documentation	type	units	eqs

22 reactions-control

var	symbol	documentation	type	units	eqs
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23 control-material

		var	symbol	documentation	type	units	eqs
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24 material-control

var	symbol	documentation	type	units	eqs
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${\bf 25} \quad {\bf control-macroscopic}$

var symbol documentation	type	units	eqs
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26 macroscopic-control

var symbol documentation	type	units	eqs
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27 reactions-material

var	symbol	documentation	type	units	eqs

28 material-reactions

var	symbol	documentation	type	units	eqs
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29 reactions-macroscopic

var symbol documentation	type	units	eqs
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$30 \quad {\rm macroscopic-reactions}$

	var	symbol	documentation	type	units	eqs
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material-macroscopic

var symbol documentation	type	units	eqs
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32 macroscopic-material

	var	symbol	documentation	type	units	eqs
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33 Equations

34 Generic

no	equation	documentation	layer
1	1 := Instantiate(#, #)	numerical value 1	root
2	0 := Instantiate(#, #)	numerical value zero	root
3	0.5 := Instantiate(#, #)	numerical value one half	root
4	$t^o := \text{Instantiate}(t, \#)$	starting time	root
5	$t^e := \text{Instantiate}(t, \#)$	end time	root