

1 Variables

2 root

	var	symbol	documentation	type	units	tokens	eqs
8	$F_{N,A}$	F_N_A	fudamental incidence matrix	network		[]	
5	t	t	time	frame	<i>s</i>	[]	
6	t^o	to	starting time	frame	<i>s</i>	[]	4
7	t^e	te	end time	frame	<i>s</i>	[]	5
1	$\#$	value	numerical value	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	tokens	eqs
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4 control

	var	symbol	documentation	type	units	tokens	eqs
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5 reactions

	var	symbol	documentation	type	units	tokens	eqs
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6 material

	var	symbol	documentation	type	units	tokens	eqs
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7 macroscopic

	var	symbol	documentation	type	units	tokens	eqs
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8 solid

	var	symbol	documentation	type	units	tokens	eqs
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9 fluid

	var	symbol	documentation	type	units	tokens	eqs
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10 liquid

	var	symbol	documentation	type	units	tokens	eqs
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11 gas

	var	symbol	documentation	type	units	tokens	eqs
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12 control-control

	var	symbol	documentation	type	units	tokens	eqs
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13 gas–liquid

	var	symbol	documentation	type	units	tokens	eqs
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14 gas–gas

	var	symbol	documentation	type	units	tokens	eqs
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15 liquid–liquid

	var	symbol	documentation	type	units	tokens	eqs
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16 gas–solid

	var	symbol	documentation	type	units	tokens	eqs
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17 solid-solid

	var	symbol	documentation	type	units	tokens	eqs
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18 liquid–solid

	var	symbol	documentation	type	units	tokens	eqs
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19 material–material

	var	symbol	documentation	type	units	tokens	eqs
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20 reactions-reactions

	var	symbol	documentation	type	units	tokens	eqs
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21 control-reactions

	var	symbol	documentation	type	units	tokens	eqs
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22 reactions-control

	var	symbol	documentation	type	units	tokens	eqs
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23 control-material

	var	symbol	documentation	type	units	tokens	eqs
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24 material-control

	var	symbol	documentation	type	units	tokens	eqs
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25 control-macroscopic

	var	symbol	documentation	type	units	tokens	eqs
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26 macroscopic-control

	var	symbol	documentation	type	units	tokens	eqs
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27 reactions-material

	var	symbol	documentation	type	units	tokens	eqs
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28 material-reactions

	var	symbol	documentation	type	units	tokens	eqs
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29 reactions-macroscopic

	var	symbol	documentation	type	units	tokens	eqs
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30 macroscopic-reactions

	var	symbol	documentation	type	units	tokens	eqs
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31 material–macroscopic

	var	symbol	documentation	type	units	tokens	eqs
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32 macroscopic-material

	var	symbol	documentation	type	units	tokens	eqs
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33 Equations

34 Generic

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