1 Variables

2 root

eqs	var	symbol	documentation	type	units	tokens
8	$F_{N,A}$	F_N_A	fudamental incidence matrix	network		
5	t	t	time	frame	s	
6	t^o	to	starting time	frame	s	4
7	t^e	te	end time	frame	s	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						

4   control

eqs	var	symbol	documentation	type	units	tokens

5 reactions

	var	symbol	documentation	type	units	tokens
eqs						

6 material

eqs	var	symbol	documentation	type	units	tokens

7 macroscopic

eqs	var	symbol	documentation	type	units	tokens

8 solid

eqs	var	symbol	documentation	type	units	tokens

9 fluid

eqs	var	symbol	documentation	type	units	tokens

10   liquid

eqs	var	symbol	documentation	type	units	tokens

11   gas

eqs	var	symbol	documentation	type	units	tokens

12   control–control

	var	symbol	documentation	type	units	tokens
eqs						

13 gas–liquid

eqs	var	symbol	documentation	type	units	tokens

14 gas–gas

eqs	var	symbol	documentation	type	units	tokens

15   liquid–liquid

eqs	var	symbol	documentation	type	units	tokens

16   gas–solid

eqs	var	symbol	documentation	type	units	tokens

17 solid–solid

eqs	var	symbol	documentation	type	units	tokens

18   liquid–solid

eqs	var	symbol	documentation	type	units	tokens

19 material–material

eqs	var	symbol	documentation	type	units	tokens

20 reactions–reactions

	var	symbol	documentation	type	units	tokens
eqs						

21   control–reactions

eqs	var	symbol	documentation	type	units	tokens

22   reactions–control

eqs	var	symbol	documentation	type	units	tokens

23   control–material

eqs	var	symbol	documentation	type	units	tokens

24 material–control

eqs	var	symbol	documentation	type	units	tokens

25   control–macroscopic

eqs	var	symbol	documentation	type	units	tokens

26   macroscopic–control

eqs	var	symbol	documentation	type	units	tokens

27 reactions–material

eqs	var	symbol	documentation	type	units	tokens

28   material–reactions

eqs	var	symbol	documentation	type	units	tokens

29 reactions–macroscopic

eqs	var	symbol	documentation	type	units	tokens

30   macroscopic–reactions

eqs	var	symbol	documentation	type	units	tokens

31 material–macroscopic

	var	symbol	documentation	type	units	tokens
eqs						

32   macroscopic–material

eqs	var	symbol	documentation	type	units	tokens

33 Equations

34   Generic

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