

Cluster L

67 topics < 93.5 hours >

prerequisites in other clusters linked

to topic here: 24

successors in other cluster linked to

topic here: 21

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prerequisites/successors pairs in this
cluster 81

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Prerequisite Topic \Rightarrow Successor
Topic

analysis & design < 1.0 hr >	\Rightarrow	statistical aspects of mechanical design < 1.0 hr >
analysis & design < 1.0 hr >	\Rightarrow	uncertainty analysis < 1.0 hr >
complex numbers < 0.5 hr >	\Rightarrow	complex variables < 0.5 hr >
complex numbers < 0.5 hr >	\Rightarrow	euler's equation < 1.0 hr >
computer operation < 1.0 hr >	\Rightarrow	computational fluid dynamics < 1.0 hr >
computer programming < 1.0 hr >	\Rightarrow	computational fluid dynamics < 1.0 hr >
computer programming < 1.0 hr >	\Rightarrow	microcontrollers < 1.0 hr >
computer programming < 1.0 hr >	\Rightarrow	simulation < 2.0 hr >
computer programming < 1.0 hr >	\Rightarrow	structured programming < 0.5 hr >
confidence intervals < 1.0 hr >	\Rightarrow	risk & uncertainty analysis < 2.0 hr >
confidence intervals < 1.0 hr >	\Rightarrow	sensitivity analysis < 1.0 hr >
derivatives_2 < 1.0 hr >	\Rightarrow	taylor series_2 < 1.0 hr >
derivatives_2 < 1.0 hr >	\Rightarrow	uncertainty analysis < 1.0 hr >
design case studies < 3.0 hr >	\Rightarrow	proof of concept testing < 1.0 hr >
design case studies < 3.0 hr >	\Rightarrow	prototype development < 2.0 hr >
design problems_2 < 5.0 hr >	\Rightarrow	design case studies < 3.0 hr >
engineering method_2 < 1.0 hr >	\Rightarrow	design problems_2 < 5.0 hr >
equation systems_2 < 1.0 hr >	\Rightarrow	equations, linear simultaneous < 0.5 hr >
equations, first order linear differential < 3.0 hr >	\Rightarrow	equations, second order linear differential < 1.0 hr >
equations, first order linear differential < 3.0 hr >	\Rightarrow	euler's method < 1.0 hr >

equations, first order linear differential < 3.0 hr >	⇒ first order systems < 1.0 hr >
equations, first order linear differential < 3.0 hr >	⇒ homogeneous solutions < 2.0 hr >
equations, first order linear differential < 3.0 hr >	⇒ linear differential operators < 1.0 hr >
equations, first order linear differential < 3.0 hr >	⇒ linear systems < 4.0 hr >
equations, first order linear differential < 3.0 hr >	⇒ separable equations < 1.0 hr >
equations, first order linear differential < 3.0 hr >	⇒ solutions in power series < 1.0 hr >
equations, first order linear differential < 3.0 hr >	⇒ system dynamics < 5.0 hr >
equations, first order linear differential < 3.0 hr >	⇒ variability measures < 1.0 hr >
equations, linear simultaneous < 0.5 hr >	⇒ cramer` s rule < 1.0 hr >
euler` s equation < 1.0 hr >	⇒ euler` s method < 1.0 hr >
euler` s method < 1.0 hr >	⇒ buckling of columns < 1.0 hr >
fatigue_2 < 2.0 hr >	⇒ statistical aspects of mechanical design < 1.0 hr >
first order systems < 1.0 hr >	⇒ first order network responses < 1.0 hr >
first order systems < 1.0 hr >	⇒ second order systems < 2.0 hr >
fits & tolerances_2 < 2.0 hr >	⇒ statistical aspects of mechanical design < 1.0 hr >
hypothesis testing < 1.0 hr >	⇒ regression < 1.0 hr >
hypothesis testing < 1.0 hr >	⇒ testing < 1.0 hr >
hypothesis testing < 1.0 hr >	⇒ tests of hypotheses < 2.0 hr >
linear dependence/independence < 1.0 hr >	⇒ separable equations < 1.0 hr >
linear systems < 4.0 hr >	⇒ cramer` s rule < 1.0 hr >
loops < 1.0 hr >	⇒ structured programming < 0.5 hr >
loops < 1.0 hr >	⇒ system thinking < 0.5 hr >
matrices & determinants_2 < 3.0 hr >	⇒ cramer` s rule < 1.0 hr >
matrices & determinants_2 < 3.0 hr >	⇒ linear systems < 4.0 hr >
probability & independence < 2.0 hr >	⇒ probability distributions < 1.0 hr >
probability & independence < 2.0 hr >	⇒ risk & uncertainty analysis < 2.0 hr >
probability distributions < 1.0 hr >	⇒ confidence intervals < 1.0 hr >

probability distributions < 1.0 hr >	⇒	discrete random variables < 1.0 hr >
probability distributions < 1.0 hr >	⇒	exponential distributions < 1.0 hr >
prototype development < 2.0 hr >	⇒	simulation < 2.0 hr >
prototype development < 2.0 hr >	⇒	testing < 1.0 hr >
rates of change < 0.5 hr >	⇒	derivatives_2 < 1.0 hr >
rates of change < 0.5 hr >	⇒	variability measures < 1.0 hr >
regression < 1.0 hr >	⇒	prediction in a regression model < 1.0 hr >
reliability < 1.0 hr >	⇒	statistical aspects of mechanical design < 1.0 hr >
scalar multiplication_2 < 0.5 hr >	⇒	vector spaces < 1.0 hr >
standard deviation & bias < 1.0 hr >	⇒	hypothesis testing < 1.0 hr >
standard deviation & bias < 1.0 hr >	⇒	proof of concept testing < 1.0 hr >
standard deviation & bias < 1.0 hr >	⇒	random signals < 1.0 hr >
standard deviation & bias < 1.0 hr >	⇒	random variables < 1.0 hr >
standard deviation & bias < 1.0 hr >	⇒	reliability < 1.0 hr >
standard deviation & bias < 1.0 hr >	⇒	risk & uncertainty analysis < 2.0 hr >
standard deviation & bias < 1.0 hr >	⇒	sensitivity analysis < 1.0 hr >
standard deviation & bias < 1.0 hr >	⇒	variability measures < 1.0 hr >
statistical aspects of mechanical design < 1.0 hr >	⇒	inferences < 0.5 hr >
statistical aspects of mechanical design < 1.0 hr >	⇒	prediction in a regression model < 1.0 hr >
statistical aspects of mechanical design < 1.0 hr >	⇒	probability & independence < 2.0 hr >
statistical aspects of mechanical design < 1.0 hr >	⇒	probability distributions < 1.0 hr >
statistical aspects of mechanical design < 1.0 hr >	⇒	regression < 1.0 hr >
statistical aspects of mechanical design < 1.0 hr >	⇒	simple linear regression < 1.0 hr >
sum & average of random samples_3 < 0.5 hr >	⇒	standard deviation & bias < 1.0 hr >
system dynamics < 5.0 hr >	⇒	lagrange's method for multi-degree-of-freedom systems < 5.0 hr >
system inputs < 1.0 hr >	⇒	system thinking < 0.5 hr >
taylor series_2 < 1.0 hr >	⇒	euler's equation < 1.0 hr >
taylor series_2 < 1.0 hr >	⇒	solutions in power series < 1.0 hr >

testing < 1.0 hr >	⇒	simulation < 2.0 hr >
uncertainty analysis < 1.0 hr >	⇒	reliability < 1.0 hr >
uncertainty analysis < 1.0 hr >	⇒	sensitivity analysis < 1.0 hr >
variability measures < 1.0 hr >	⇒	probability & independence < 2.0 hr >
vector spaces < 1.0 hr >	⇒	geometry, solid analytic < 2.0 hr >
vector spaces < 1.0 hr >	⇒	linear dependence/independence < 1.0 hr >