

Cluster G

41 topics < 52.5 hours >

prerequisites in other clusters linked

to topic here: 6

successors in other cluster linked to
topic here: 11

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prerequisites(successors pairs in this
cluster 29)

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Prerequisite Topic \Rightarrow Successor
Topic

ac circuits < 3.0 hr >	\Rightarrow	actuators & sensors < 0.5 hr >
ac circuits < 3.0 hr >	\Rightarrow	digital circuits < 1.0 hr >
beam theory < 2.0 hr >	\Rightarrow	columns < 1.0 hr >
beam theory < 2.0 hr >	\Rightarrow	design deflection < 1.0 hr >
beam theory < 2.0 hr >	\Rightarrow	flexure < 1.0 hr >
binary representations < 1.0 hr >	\Rightarrow	digital logic < 1.0 hr >
calculus of variations < 0.5 hr >	\Rightarrow	direct & variational approaches to finite element analysis < 3.0 hr >
circuit analysis < 1.0 hr >	\Rightarrow	actuators & sensors < 0.5 hr >
circuit analysis < 1.0 hr >	\Rightarrow	electronic amplifiers < 0.5 hr >
circuit laws & applications < 2.0 hr >	\Rightarrow	circuit analysis < 1.0 hr >
cylindrical coordinates < 1.0 hr >	\Rightarrow	spherical coordinates < 1.0 hr >
decision making < 1.0 hr >	\Rightarrow	project management < 1.0 hr >
digital logic < 1.0 hr >	\Rightarrow	digital circuits < 1.0 hr >
dimensional analysis < 1.0 hr >	\Rightarrow	fluid dimensions < 0.5 hr >
dimensional analysis < 1.0 hr >	\Rightarrow	modeling analysis methods < 2.0 hr >
electric current_3 < 2.0 hr >	\Rightarrow	ac circuits < 3.0 hr >
equation systems < 1.0 hr >	\Rightarrow	parametric equations < 1.0 hr >
equilibrium of co-linear 2d force systems < 1.0 hr >	\Rightarrow	equilibrium of co-linear 3d force systems < 1.0 hr >
equilibrium of concurrent/non-concurrent 2d force systems < 1.0 hr >	\Rightarrow	equilibrium of concurrent/non-concurrent 3d force systems < 1.0 hr >
equilibrium of rigid body systems & subsystems < 2.0 hr >	\Rightarrow	equilibrium of concurrent/non-concurrent 2d force systems < 1.0 hr >

functions_2 < 1.0 hr > ⇒ calculus of variations < 0.5 hr >
functions_2 < 1.0 hr > ⇒ orthogonal functions < 1.0 hr >
machine tools < 2.0 hr > ⇒ numerically-controlled (nc) machines < 0.5 hr >
machining < 2.0 hr > ⇒ machine tools < 2.0 hr >
orthogonality < 1.0 hr > ⇒ orthogonal functions < 1.0 hr >
parametric equations < 1.0 hr > ⇒ parametric curves < 1.0 hr >
spherical coordinates < 1.0 hr > ⇒ 3d geometrical transformations < 1.0 hr >
superposition < 1.0 hr > ⇒ interference < 1.0 hr >
time domain analysis < 4.0 hr > ⇒ time domain response by numeric simulation < 1.0 hr >