



National Council of Examiners for Engineering and Surveying
 Fundamentals of Engineering Examination
 ABET - Accredited Programs

200704
6/14/2007

Graduate of	Engineering						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Agricultural	PM Exam:	FE-General				
	*Institution	National	Comparator Groupings				

Examinees Taking	1	30	23	2	4
Examinees Passing	1	14	12	0	1
Examinees Passing %	100	47	52	0	25

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	63	61	3.1	62	61	50
Engineering Probability and Statistics	8	75	60	1.5	61	62	50
Chemistry	11	91	66	1.9	67	68	57
Computers	8	88	80	1.2	82	69	69
Ethics and Business Practices	8	75	78	1.1	77	62	84
Engineering Economics	10	60	51	2.0	51	40	60
Engineering Mechanics (Statics and Dynamics)	13	54	58	2.5	59	50	56
Strength of Materials	8	38	51	1.4	49	62	50
Material Properties	8	62	54	1.6	53	88	41
Fluid Mechanics	8	62	60	2.0	64	50	38
Electricity and Magnetism	11	82	50	2.1	51	55	45
Thermodynamics	8	50	52	1.5	54	50	41

PM Subject

Advanced Engineering Mathematics	6	83	49	1.5	55	8	29
Engineering Probability and Statistics	5	60	44	1.2	47	40	25
Biology	3	67	36	0.9	38	17	33
Engineering Economics	6	83	66	1.4	63	58	83
Application of Engineering Mechanics	8	38	36	1.3	33	38	41
Engineering of Materials	7	57	32	1.4	30	29	43
Fluids	9	56	54	2.1	54	56	50
Electricity and Magnetism	7	43	39	1.3	41	43	21
Thermodynamics and Heat Transfer	9	89	53	2.0	53	61	47

* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

** The standard deviation above is based on number of questions correct not percentage of questions correct.

*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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6/14/2007

Graduate of Engineering							
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Chemical	PM Exam:	FE-Chemical				
	*Institution	National	Comparator Groupings				

Examinees Taking	1	151	107	20	18
Examinees Passing	1	113	91	9	9
Examinees Passing %	100	75	85	45	50

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	95	71	3.0	74	66	61
Engineering Probability and Statistics	8	62	67	1.5	69	63	57
Chemistry	11	73	79	1.7	83	70	69
Computers	8	75	82	1.4	87	68	74
Ethics and Business Practices	8	75	78	1.4	82	71	62
Engineering Economics	10	100	56	2.3	58	54	48
Engineering Mechanics (Statics and Dynamics)	13	69	58	2.3	62	50	47
Strength of Materials	8	25	42	1.2	44	41	33
Material Properties	8	75	70	1.5	74	64	56
Fluid Mechanics	8	62	71	1.9	74	61	65
Electricity and Magnetism	11	73	54	2.4	58	50	40
Thermodynamics	8	50	64	1.7	66	59	55

PM Subject

Chemistry	6	100	68	1.1	71	61	56
Material / Energy Balances	9	89	66	1.9	71	59	47
Chemical Engineering Thermodynamics	6	67	58	1.5	63	50	42
Fluid Dynamics	6	67	56	1.5	60	50	44
Heat Transfer	6	67	62	1.3	64	56	58
Mass Transfer	6	83	64	1.4	67	54	56
Chemical Reaction Engineering	6	17	34	1.4	38	29	23
Process Design and Economic Optimization	6	83	55	1.3	59	47	44
Computer Usage and Chemical Engineering	3	100	62	0.9	65	55	52
Process Control	3	67	51	0.8	54	50	37
Safety, Health, and Environmental	3	67	74	0.7	74	77	69

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Chemical	PM Exam:	FE-General				
	*Institution	National	Comparator Groupings				

Examinees Taking	1	206	138	21	40
Examinees Passing	1	144	105	16	19
Examinees Passing %	100	70	76	76	48

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	74	73	2.8	75	72	67
Engineering Probability and Statistics	8	88	68	1.6	72	61	54
Chemistry	11	100	80	1.6	82	79	72
Computers	8	75	81	1.6	85	78	71
Ethics and Business Practices	8	88	77	1.5	80	77	67
Engineering Economics	10	90	63	2.5	67	60	53
Engineering Mechanics (Statics and Dynamics)	13	85	63	2.5	66	61	55
Strength of Materials	8	75	50	1.4	50	54	45
Material Properties	8	75	68	1.6	72	65	55
Fluid Mechanics	8	100	72	1.8	73	74	65
Electricity and Magnetism	11	73	60	2.5	62	61	51
Thermodynamics	8	75	64	1.9	67	70	54

PM Subject

Advanced Engineering Mathematics	6	67	62	1.3	65	60	52
Engineering Probability and Statistics	5	60	42	1.1	46	31	32
Biology	3	67	56	0.9	61	51	42
Engineering Economics	6	100	72	1.2	75	71	64
Application of Engineering Mechanics	8	38	33	1.4	36	27	29
Engineering of Materials	7	43	34	1.5	35	43	25
Fluids	9	89	61	2.0	64	62	54
Electricity and Magnetism	7	71	48	1.6	51	45	39
Thermodynamics and Heat Transfer	9	67	66	1.7	68	61	60

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Board Code:	71	School Code:	7101				
Major:	Civil	PM Exam:	FE-Civil				
	*Institution	National	Comparator Groupings				

Examinees Taking	12	1,335	629	280	287
Examinees Passing	7	574	350	98	96
Examinees Passing %	58	43	56	35	33

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject							
Mathematics	19	71	61	2.9	65	58	59
Engineering Probability and Statistics	8	59	53	1.7	58	50	48
Chemistry	11	63	56	2.0	60	56	53
Computers	8	74	70	1.7	74	68	68
Ethics and Business Practices	8	76	76	1.4	80	77	74
Engineering Economics	10	55	49	2.3	53	46	45
Engineering Mechanics (Statics and Dynamics)	13	65	58	2.4	62	54	55
Strength of Materials	8	58	59	1.6	62	57	57
Material Properties	8	65	53	1.7	58	53	50
Fluid Mechanics	8	57	53	1.9	58	49	48
Electricity and Magnetism	11	45	41	2.0	45	40	38
Thermodynamics	8	36	43	1.7	46	41	41

PM Subject							
Surveying	7	56	51	1.4	54	50	49
Hydraulics and Hydrologic Systems	7	46	41	1.4	45	37	41
Soil Mechanics and Foundations	9	48	46	1.7	50	43	43
Environmental Engineering	7	63	54	1.5	58	53	50
Transportation	7	45	41	1.4	44	41	38
Structural Analysis	6	40	35	1.2	36	33	34
Structural Design	6	42	38	1.3	42	37	35
Construction Management	6	64	63	1.3	66	62	60
Materials	5	47	47	1.1	49	47	45

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Civil	PM Exam:	FE-Environmental				
	*Institution	National	Comparator Groupings				

Examinees Taking	1	62	40	5	14
Examinees Passing	0	35	28	3	4
Examinees Passing %	0	56	70	60	29

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
AM Subject							
Mathematics	19	68	68	2.9	71	69	61
Engineering Probability and Statistics	8	38	57	1.7	62	65	38
Chemistry	11	55	68	2.2	73	75	55
Computers	8	88	74	1.6	79	65	60
Ethics and Business Practices	8	75	77	1.6	80	58	75
Engineering Economics	10	30	48	2.5	53	68	29
Engineering Mechanics (Statics and Dynamics)	13	46	57	2.8	62	62	44
Strength of Materials	8	75	55	1.8	59	62	46
Material Properties	8	38	54	1.9	61	50	38
Fluid Mechanics	8	38	54	2.2	59	55	43
Electricity and Magnetism	11	18	45	2.4	46	53	39
Thermodynamics	8	25	48	1.8	52	45	39

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
PM Subject							
Water Resources	15	40	60	2.6	64	61	52
Water and Wastewater Engineering	18	17	50	3.3	54	49	40
Air Quality Engineering	9	56	56	1.9	63	53	40
Solid and Hazardous Waste Engineering	9	56	57	1.9	64	51	44
Environmental Science and Management	9	44	58	1.6	61	53	54

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Board Code:	71	School Code:	7101				
Major:	Civil	PM Exam:	FE-General				
	*Institution		National		Comparator Groupings		

Examinees Taking	4	1,193	573	199	348
Examinees Passing	1	438	286	53	88
Examinees Passing %	25	37	50	27	25

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	59	66	3.1	70	63	62
Engineering Probability and Statistics	8	44	54	1.8	60	51	48
Chemistry	11	57	58	2.2	63	56	53
Computers	8	72	69	1.8	76	66	63
Ethics and Business Practices	8	75	74	1.6	78	72	71
Engineering Economics	10	52	52	2.4	57	49	49
Engineering Mechanics (Statics and Dynamics)	13	48	59	2.6	64	56	55
Strength of Materials	8	50	60	1.6	63	57	58
Material Properties	8	47	53	1.7	58	51	49
Fluid Mechanics	8	53	54	1.9	60	51	49
Electricity and Magnetism	11	45	45	2.4	50	42	42
Thermodynamics	8	56	42	1.8	47	38	39

PM Subject

Advanced Engineering Mathematics	6	38	54	1.5	60	49	48
Engineering Probability and Statistics	5	35	35	1.1	40	32	30
Biology	3	75	40	0.9	45	38	36
Engineering Economics	6	71	65	1.3	68	64	63
Application of Engineering Mechanics	8	34	40	1.6	44	38	37
Engineering of Materials	7	29	30	1.2	33	28	28
Fluids	9	47	46	1.9	51	40	42
Electricity and Magnetism	7	29	36	1.4	40	33	34
Thermodynamics and Heat Transfer	9	64	47	1.6	49	45	44

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Graduate of	Engineering						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Electrical	PM Exam:	FE-General				
	*Institution		National		Comparator Groupings		

Examinees Taking	4	572	266	86	165
Examinees Passing	1	240	142	37	53
Examinees Passing %	25	42	53	43	32

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	74	68	3.0	71	69	65
Engineering Probability and Statistics	8	62	55	1.7	61	56	49
Chemistry	11	48	58	2.1	63	58	55
Computers	8	84	72	1.7	77	74	67
Ethics and Business Practices	8	81	74	1.6	77	75	73
Engineering Economics	10	30	51	2.4	55	46	48
Engineering Mechanics (Statics and Dynamics)	13	56	53	2.7	57	53	48
Strength of Materials	8	34	42	1.5	43	45	40
Material Properties	8	47	54	1.8	61	53	51
Fluid Mechanics	8	34	44	1.8	46	43	42
Electricity and Magnetism	11	64	69	2.4	73	69	65
Thermodynamics	8	34	45	1.7	47	46	41

PM Subject

Advanced Engineering Mathematics	6	75	57	1.4	61	56	55
Engineering Probability and Statistics	5	30	36	1.0	40	33	34
Biology	3	17	42	0.8	45	41	39
Engineering Economics	6	54	66	1.3	71	66	62
Application of Engineering Mechanics	8	22	29	1.4	31	31	28
Engineering of Materials	7	29	28	1.2	30	26	26
Fluids	9	36	41	1.9	44	41	37
Electricity and Magnetism	7	36	56	1.5	59	52	53
Thermodynamics and Heat Transfer	9	44	48	1.7	51	48	45

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Board Code:	71	School Code:	7101				
Major:	Mechanical	PM Exam:	FE-General				
	*Institution	National	Comparator Groupings				

Examinees Taking	5	1,029	571	163	230
Examinees Passing	3	712	451	104	126
Examinees Passing %	60	69	79	64	55

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	77	73	3.0	77	69	68
Engineering Probability and Statistics	8	60	64	1.7	68	63	55
Chemistry	11	58	66	2.1	71	62	59
Computers	8	80	79	1.6	84	77	71
Ethics and Business Practices	8	82	78	1.4	80	77	74
Engineering Economics	10	56	56	2.5	59	52	51
Engineering Mechanics (Statics and Dynamics)	13	75	68	2.7	73	65	61
Strength of Materials	8	65	61	1.5	63	60	56
Material Properties	8	58	70	1.6	74	70	63
Fluid Mechanics	8	65	67	1.9	71	62	61
Electricity and Magnetism	11	56	61	2.6	65	57	54
Thermodynamics	8	72	59	1.8	63	57	50

PM Subject

Advanced Engineering Mathematics	6	67	60	1.5	65	56	53
Engineering Probability and Statistics	5	32	41	1.2	45	38	34
Biology	3	40	48	0.9	52	45	41
Engineering Economics	6	57	70	1.2	73	67	64
Application of Engineering Mechanics	8	48	50	1.7	55	48	44
Engineering of Materials	7	29	39	1.5	42	40	34
Fluids	9	64	62	1.9	66	60	55
Electricity and Magnetism	7	54	51	1.5	54	46	46
Thermodynamics and Heat Transfer	9	49	57	1.8	61	57	51

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Board Code:	71	School Code:	7101				
Major:	Mechanical	PM Exam:	FE-Mechanical				
	*Institution	National	Comparator Groupings				

Examinees Taking	1	346	212	62	49
Examinees Passing	0	241	167	40	21
Examinees Passing %	0	70	79	65	43

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	53	72	3.1	76	67	63
Engineering Probability and Statistics	8	25	64	1.7	68	61	52
Chemistry	11	36	67	2.0	70	63	62
Computers	8	75	82	1.5	86	82	70
Ethics and Business Practices	8	88	80	1.3	82	74	78
Engineering Economics	10	40	52	2.4	56	49	43
Engineering Mechanics (Statics and Dynamics)	13	54	70	2.5	74	67	61
Strength of Materials	8	62	62	1.4	64	58	56
Material Properties	8	62	73	1.6	76	70	66
Fluid Mechanics	8	62	69	1.8	73	66	60
Electricity and Magnetism	11	36	61	2.7	65	55	54
Thermodynamics	8	75	57	1.9	60	55	48

PM Subject

Mechanical Design and Analysis	9	33	33	1.7	36	30	28
Kinematics, Dynamics, and Vibrations	9	44	63	1.8	66	59	55
Materials and Processing	6	33	43	1.3	46	38	38
Measurements, Instrumentation, and Controls	6	0	42	1.2	44	37	39
Thermodynamics and Energy Conversion Processes	9	11	42	1.6	44	42	36
Fluid Mechanics and Fluid Machinery	9	11	52	1.8	54	50	47
Heat Transfer	6	33	42	1.4	46	38	35
Refrigeration and HVAC	6	17	43	1.3	45	43	38

* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

** The standard deviation above is based on number of questions correct not percentage of questions correct.

*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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National Council of Examiners for Engineering and Surveying
 Fundamentals of Engineering Examination
 ABET - Accredited Programs

200704
 6/14/2007

Graduate of	Engineering					
Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	Mining/Mineral	PM Exam:	FE-Civil			
	*Institution	National	Comparator Groupings			

Examinees Taking	2	3	3	0	0
Examinees Passing	0	0	0	0	0
Examinees Passing %	0	0	0	0	0

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
AM Subject							
Mathematics	19	42	33	2.9	33	0	0
Engineering Probability and Statistics	8	56	42	2.5	42	0	0
Chemistry	11	64	52	2.3	52	0	0
Computers	8	56	58	0.6	58	0	0
Ethics and Business Practices	8	75	79	1.2	79	0	0
Engineering Economics	10	50	40	1.7	40	0	0
Engineering Mechanics (Statics and Dynamics)	13	62	54	1.7	54	0	0
Strength of Materials	8	38	38	1.0	38	0	0
Material Properties	8	50	46	1.2	46	0	0
Fluid Mechanics	8	50	38	1.7	38	0	0
Electricity and Magnetism	11	41	27	3.0	27	0	0
Thermodynamics	8	19	25	1.7	25	0	0
PM Subject							
Surveying	7	36	43	1.0	43	0	0
Hydraulics and Hydrologic Systems	7	57	48	1.2	48	0	0
Soil Mechanics and Foundations	9	22	26	1.2	26	0	0
Environmental Engineering	7	64	62	0.6	62	0	0
Transportation	7	36	43	1.0	43	0	0
Structural Analysis	6	17	22	1.2	22	0	0
Structural Design	6	25	22	0.6	22	0	0
Construction Management	6	58	67	1.0	67	0	0
Materials	5	40	47	1.2	47	0	0

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 Fundamentals of Engineering Examination
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Graduate of	Engineering					
Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	Mining/Mineral	PM Exam:	FE-General			
	*Institution	National	Comparator Groupings			

Examinees Taking	1	10	7	1	0
Examinees Passing	0	3	2	0	0
Examinees Passing %	0	30	29	0	0

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	58	62	3.2	66	53	0
Engineering Probability and Statistics	8	88	62	2.2	68	25	0
Chemistry	11	55	58	1.9	60	55	0
Computers	8	75	79	1.9	82	75	0
Ethics and Business Practices	8	88	79	1.7	75	75	0
Engineering Economics	10	20	45	3.0	50	20	0
Engineering Mechanics (Statics and Dynamics)	13	54	67	1.8	71	54	0
Strength of Materials	8	0	52	2.2	61	25	0
Material Properties	8	62	52	1.4	55	62	0
Fluid Mechanics	8	50	49	2.0	43	75	0
Electricity and Magnetism	11	36	47	3.0	51	18	0
Thermodynamics	8	38	51	2.3	50	62	0

PM Subject

Advanced Engineering Mathematics	6	67	47	1.9	52	33	0
Engineering Probability and Statistics	5	20	38	0.9	37	20	0
Biology	3	33	40	0.9	38	0	0
Engineering Economics	6	50	65	1.4	64	50	0
Application of Engineering Mechanics	8	0	38	1.9	38	38	0
Engineering of Materials	7	29	27	1.1	20	29	0
Fluids	9	33	49	1.6	48	56	0
Electricity and Magnetism	7	29	36	1.7	39	0	0
Thermodynamics and Heat Transfer	9	67	42	1.8	44	56	0

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