

		Chapter:-1-Thermometry,Thermal Expansion and Calorimetry	Video:Duration
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2	2	Waves_Ch1_2_Scales of Temperature	00:22:44
3	3	Waves_Ch1_3_Thermal Expansion p1	00:11:37
4	4	Waves_Ch1_4_Thermal Expansion p2	00:20:15
5	5	Waves_Ch1_5_Thermal Expansion p3	00:23:24
6	6	Waves_Ch1_6_Thermal Expansionp4	00:20:47
7	7	Waves_Ch1_7_Bi-metalic strip	00:14:21
8	8	Waves_Ch1_8_Expansion of Cavity	00:19:12
9	9	Waves_Ch1_9_Effect of Temperature on the Time Period of a Simple Pendulum	00:19:59
10	10	Waves_Ch1_10_Thermal Stress in Rigidly Fixed Rod	00:13:29
11	11	Waves_Ch1_11_Thermal Stress in Rigidly Fixed Rod Illustrations	00:14:41
12	12	Waves_Ch1_12_Thermal Stress in Rigidly Fixed Rod Illustrations	00:17:57
13	13	Waves_Ch1_13_Apparent Expansion in Liquid	00:26:56
14	14	Waves_Ch1_14_Variation of Density and Upthrust	00:26:28
15	15	Waves_Ch1_15_Variation of Density and Upthrust illustrations	00:20:34
16	16	Waves_Ch1_16_Anomolus behaviour of Water	00:07:20
17	17	Waves_Ch1_17_Calorimetry	00:23:29
18	18	Waves_Ch1_18_Calorimetry	00:25:59
19	19	Waves_Ch1_19_Water Equivalent	00:08:58
20	20	Waves_Ch1_20_Phase Change and Latent Heat	00:18:24
21	21	Waves_Ch1_21_Heating Curve	00:19:42
22	22	Waves_Ch1_22_Heating Curve Illustrations	00:24:23
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23	23	Waves_Ch1_1_Thermometry Thermal Expansion and Calorimetry illustration	00:11:05
24	24	Waves_Ch1_2_Linear Expansion, superficial Expansion and Volumetric Expansion illustrations	00:15:49
25	25	Waves_Ch1_3_Calorimetry illustration	00:10:44
26	26	Waves_Ch1_4_Calorimetry illustration	00:14:58
27	27	Waves_Ch1_5_Linear Expansion illustration	00:13:05
28	28	Waves_Ch1_6_Fluid Mechanics and Thermal Expansion illustration	00:18:00
29	29	Waves_Ch1_7_Fluid Mechanics and Thermal Expansion illustration	00:11:12
30	30	Waves_Ch1_8_Calorimetry illustration	00:14:18
31	31	Waves_Ch1_9_Thermal Stress illustration	00:12:28
32	32	Waves_Ch1_10_Mechanics and Calorimetry	00:05:37
33	33	Waves_Ch1_11_Rotational Dynamics and Thermal Expansion illustration	00:08:25
34	34	Waves_Ch1_12_Fluid Mechanics and Thermal Expansion illustration	00:10:15
35	35	Waves_Ch1_13_Calorimetry illustration	00:15:27

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		Chapter:-2-Transfer of the Heat	Video:Duration
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39	4	Waves_Ch2_4_Electrical Analogy of Heat Conduction	00:30:56
40	5	Waves_Ch2_5_Electrical Analogy of Heat Conduction illustrations	00:21:09
41	6	Waves_Ch2_6_Electrical Analogy of Heat Conduction illustrations	00:26:02
42	7	Waves_Ch2_7_Growth of Ice on Lake	00:12:33
43	8	Waves_Ch2_8_Searle's Experiment	00:09:56
44	9	Waves_Ch2_9_Radiation	00:19:30
45	10	Waves_Ch2_10_Perfect black body	00:12:19
46	11	Waves_Ch2_11_Emissive power and absorptive power emissivity	00:35:08
47	12	Waves_Ch2_12_Prevost theory of heat exchange	00:08:05
48	13	Waves_Ch2_13_Kirchoffs law of Radiation	00:11:58
49	14	Waves_Ch2_14_Stefan Boltzmann Law	00:12:34
50	15	Waves_Ch2_15_Kirchoffs law and Stefan Boltzmann law illustrations	00:15:54
51	16	Waves_Ch2_16_Kirchoffs law and Stefan Boltzmann law illustrations	00:25:44
52	17	Waves_Ch2_17_Newton Law of Cooling	00:30:17
53	18	Waves_Ch2_18_Newton law of Cooling illustrations	00:25:44
54	19	Waves_Ch2_19_Distribution of energy in the spectrum of Black body	00:11:18
55	20	Waves_Ch2_20_Wein's Displacement Law Illustrations	00:31:01
56	21	Waves_Ch2_21_Solar Constant & Temperature of the sun	00:22:37
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57	22	Waves_Ch2_1_Thermal conductivity and Radiation illustration	00:06:05
58	23	Waves_Ch2_2_Thermal conductivity illustration	00:09:25
59	24	Waves_Ch2_3_Thermal conductivity & Calorimetry illustration	00:09:51
60	25	Waves_Ch2_4_Stefan's Law & Calorimetry illustration	00:11:13
61	26	Waves_Ch2_5_Newton's Law of Cooling & Calorimetry illustration	00:13:59

62	27	Waves_Ch2_6_Newton's Law of Cooling & Calorimetry	00:17:18
63	28	Waves_Ch2_7_Thermal conductivity & Stefan's Law	00:08:26
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		Chapter:-3- Kinetic Theory of Gases	Video:Duration
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65	2	Waves_Ch3_2_Assumptions of Ideal Gas and Ideal Gas Equation illustrations	00:12:22
66	3	Waves_Ch3_3_Pressure of an Ideal Gas	00:34:49
67	4	Waves_Ch3_4_Pressure of an Ideal Gas illustrations	00:20:19
68	5	Waves_Ch3_5_Derivation of Gas Law from Kinetic Theory of Gases	00:20:50
69	6	Waves_Ch3_6_Maxwell's Distribution of Molecular speeds	00:14:29
70	7	Waves_Ch3_7_Maxwell's Distribution of Molecular speeds Illustration	00:07:51
71	8	Waves_Ch3_8_Kinetic Energy of an Ideal Gas	00:14:20
72	9	Waves_Ch3_9_Kinetic Energy of an Ideal Gas illustrations	00:18:35
73	10	Waves_Ch3_10_Degree of Freedom and Law of Equipartition of Energy	00:15:21
74	11	Waves_Ch3_11_Law of Equipartition of Energy	00:38:11
75	12	Waves_Ch3_12_Different Processes of Ideal Gas	00:21:44
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77	14	Waves_Ch3_14_Different Processes Ideal Gas Illustration p2	00:40:12
78	15	Waves_Ch3_15_Different Processes Ideal Gas Illustration p1	00:34:41
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80	17	Waves_Ch3_1_R.M. S Velocity and Internal Energy of Ideal Gas illustration	00:11:01
81	18	Waves_Ch3_2_Finding Collision Rate and Internal Energy of Ideal Gas illustration	00:11:48
82	19	Waves_Ch3_3_Gas Laws illustration	00:09:41
83	20	Waves_Ch3_4_Graphical Representation of Different Processes in Ideal Gas illustration	00:17:25
84	21	Waves_Ch3_5_Finding Maximum-Minimum Pressure in a Process illustration	00:09:36
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86	23	Waves_Ch3_7_Force Exerted on a Surface Due to Moving Gas Molecules illustration	00:11:47
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88	25	Waves_Ch3_9_Application of an Ideal Gas Equation illustration	00:12:03
89	26	Waves_Ch3_10_Application of an Ideal Gas Equation illustration	00:11:16
90	27	Waves_Ch3_11_Application of an Ideal Gas Equation illustration	00:12:50
91	28	Waves_Ch3_12_Application of an Ideal Gas Equation illustration	00:14:17
92	29	Waves_Ch3_13_Application of an Ideal Gas Equation and Internal Energy illustration	00:11:34
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95	3	Waves_Ch4_3_Work done in a Thermodynamic Process Illustrations	00:29:13
96	4	Waves_Ch4_4_First Law of Thermodynamics	00:16:13
97	5	Waves_Ch4_5_First Law of Thermodynamics Illustrations	00:20:52
98	6	Waves_Ch4_6_First Law of Thermodynamics Illustrations p2	00:24:37
99	7	Waves_Ch4_7_Molar specific Heat of Gases p1	00:28:06
100	8	Waves_Ch4_8_Molar specific Heat of Gases p2	00:21:17
101	9	Waves_Ch4_9_Molar specific Heat of Gases Illustrations	00:24:37
102	10	Waves_Ch4_10_Molar specific Heat of Gases Illustrations	00:24:20
103	11	Waves_Ch4_11_Molar specific Heat of Gases Illustrations	00:20:05
104	12	Waves_Ch4_12_Gaseous Mixture	00:18:13
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109	17	Waves_Ch4_17_Adiabatic Process Illustrations	00:38:48
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118	26	Waves_Ch4_26_Heat Engine	00:21:47
119	27	Waves_Ch4_27_Second Law of Thermodynamics	00:08:01
120	28	Waves_Ch4_28_Carnot Engine	00:24:53
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127	35	Waves_Ch4_4_Application of the First Law of Thermodynamics in Adiabatic Process	00:04:14
128	36	Waves_Ch4_5_Application of the First Law of Thermodynamics in Adiabatic Process	00:09:09
129	37	Waves_Ch4_6_Application of the First Law of Thermodynamics in Adiabatic Process	00:08:07
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131	39	Waves_Ch4_8_Application of the First Law of Thermodynamics in Different Situations	00:09:04
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134	42	Waves_Ch4_11_Application of the First Law of Thermodynamics in Different Situations	00:09:21
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137	45	Waves_Ch4_14_Application of the First Law of Thermodynamics in Different Situations	00:12:46
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164	27	Waves_ch5_27_Analysis of Angular SHM and Simple pendulum Illustrations	00:26:04
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166	29	Waves_ch5_30_Physical Pendulum (Compound Pendulum)	00:33:35
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174	37	Waves_Ch5_2_Solved Example Mixed concept based on basic concept of S.H.M and laws of motion	0:10:04
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190	2	Waves_Ch6_2_Wave Motion and Pulse	00:06:24
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193	5	Waves_Ch6_5_Wave Parameters	00:20:15

194	6	Waves_Ch6_6_Wave Functions	00:17:16
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206	18	Waves_Ch6_18_Power Transmitted along the String by a sine wave	00:16:10
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213	25	Waves_Ch6_5_Solved Example Writing Wave equation, wave velocity and particle Velocity	00:16:15
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219	31	Waves_Ch6_11_Solved Example Writing Wave equation and Energy carried by wave	00:12:08
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229	9	Waves_Ch7_9_Reflection and Transmission of the Wave p2	00:14:19
230	10	Waves_Ch7_10_Equation of Stationary wave and formation of nodes antinodes p1	00:40:24
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233	13	Waves_Ch7_13_Formation of stationary wave on strings illustration p2	00:36:43
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238	18	Waves_Ch7_18_Formation of waves in organ pipes	00:37:20
239	19	Waves_Ch7_19_Formation of waves in organ pipes illustrations	00:28:38
240	20	Waves_Ch7_20_Formation of waves in organ pipes illustrations	00:26:10
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242	22	Waves_Ch7_22_Resonance tube p1	00:19:50
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245	25	Waves_Ch7_25_Beats	00:29:51
246	26	Waves_Ch7_26_Beats illustrations	00:35:56
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257	37	Waves_Ch7_11_Solved example Formation of stationary waves in organ pipes and rod	00:14:52
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259	39	Waves_Ch7_13_Solved example Formation of stationary waves in strings	00:12:34
260	40	Waves_Ch7_14_Solved example Finding energy of oscillation of a string	00:24:05

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263	3	Waves_Ch8_3_Speed of Sound in Gaseous medium	00:36:24
264	4	Waves_Ch8_4_Speed of Sound in Gaseous medium illustrations	00:21:18
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267	7	Waves_Ch8_6_Displacement wave, pressure wave and density wave p3	00:16:48
268	8	Waves_Ch8_8_Intensity of periodic sound p1	00:13:19
269	9	Waves_Ch8_9_Intensity of periodic sound p2	00:18:08
270	10	Waves_Ch8_10_Intensity of periodic sound p3	00:21:38
271	11	Waves_Ch8_11_Measurements of sound levels p1	00:19:30
272	12	Waves_Ch8_12_Measurements of sound levels p	00:31:17
273	13	Waves_Ch8_13_Doppler Effect	00:33:03
274	14	Waves_Ch8_14_Source and Observer both in Motion	00:24:57
275	15	Waves_Ch8_15_Doppler effect illustrations	00:29:11
276	16	Waves_Ch8_16_Doppler effect in reflected sound	00:32:07
277	17	Waves_Ch8_17_Doppler effect for accelerated motion	00:17:11
278	18	Waves_Ch8_18_Doppler effect when source and observer are not in same line of motion p1	00:22:56
279	19	Waves_Ch8_18_Doppler effect when source and observer are not in same line of motion p2	00:21:22
		Solved Examples	
280	1	Waves_ch8_1_Solved Example Organ pipes,pressure variation and density variation due to sound wave	00:15:54
281	2	Waves_ch8_2_Solved Example Sound Level	00:10:05
282	3	Waves_ch8_3_Solved Example Doppler effect and beats	00:10:57
283	4	Waves_ch8_4_Solved Example Doppler effect and S.H.M	00:13:05
284	5	Waves_ch8_5_Solved Example Doppler effect	00:07:02
285	6	Waves_ch8_6_Solved Example Doppler effect and SHM	00:16:27
286	7	Waves_ch8_7_Solved Example Doppler effect and Beats	00:09:27
287	8	Waves_ch8_8_Solved Example Doppler effect ,Sonometer and Beats	00:09:40
288	9	Waves_ch8_9_Solved Example Doppler effect	00:11:06
289	10	Waves_ch8_10_Solved Example Doppler effect	00:12:46
			9:21:10

Overall total hours = 91 hours 10 min