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2	Mech2__Ch1_2_Centre of Mass System of Particles	00:32:55
3	Mech2__Ch1_3_Continiuos Mass Distribution	00:17:56
4	Mech2__Ch1_4_Continiuos Mass Distribution	00:13:41
5	Mech2__Ch1_5_Continiuos Mass Distribution	00:12:54
6	Mech2__Ch1_6_Velocity and Acceleration of Centre of Mass and System of Particles Applications	00:15:04
7	Mech2__Ch1_7_Velocity and Acceleration of Centre of Mass and Applications	00:16:22
8	Mech2__Ch1_8_Velocity and Acceleration of Centre of Mass and Applications	00:16:25
9	Mech2__Ch1_9_Velocity and Acceleration of Centre of Mass and Applications	00:21:48
10	Mech2__Ch1_10_Displacement of Centre of Mass	00:29:14
11	Mech2__Ch1_11_Displacement of Centre of Mass	00:14:11
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13	Mech2__Ch1_13_Displacement of Centre of Mass illustrations	00:14:52
14	Mech2__Ch1_14_Displacement of Centre of Mass illustrations	00:23:09
15	Mech2__Ch1_15_Displacement of Centre of Mass illustrations	00:25:25
16	Mech2__Ch1_16_Centre of Mass Conservation Linear and Mechanical Momentum	00:24:46
17	Mech2__Ch1_17_Centre of Mass Conservation Linear and Mechanical Momentum	00:23:51
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19	Mech2__Ch1_19_Centre of Mass Conservation Linear and Mechanical Momentum Illustrations	00:26:50
20	Mech2__Ch1_20_Centre of Mass Conservation Linear and Mechanical Momentum Illustrations	00:14:12
21	Mech2__Ch1_21_Centre of Mass Conservation Linear and Mechanical Momentum Illustrations	00:21:25
22	Mech2__Ch1_22_Centre of Mass Frame of Reference	00:34:24
23	Mech2__Ch1_23_Two Particle System Relative to Centre of Mass Frame	00:36:24
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25	Mech2__Ch1_25_Total work of Pseudo Forces in Centroidal Frame	00:16:04
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28	Mech2__Ch1_3_System of Particles Solved Example	00:06:15
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30	Mech2__Ch1_5_System of Particles Solved Example	00:06:47
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33	Mech2__Ch1_8_System of Particles Solved Example	00:13:58
34	Mech2__Ch1_9_System of Particles Solved Example	00:09:53

35	Mech2__Ch1_10_System of Particles Solved Example	00:07:25
36	Mech2__Ch1_11_System of Particles Solved Example	00:10:17
37	Mech2__Ch1_12_System of Particles Solved Example	00:05:36
38	Mech2__Ch1_13_System of Particles Solved Example	00:09:19
39	Mech2__Ch1_14_System of Particles Solved Example	00:09:56
40	Mech2__Ch1_15_System of Particles Solved Example	00:19:52
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42	Mech2__Ch1_17_System of Particles Solved Example	00:09:36
43	Mech2__Ch1_18_System of Particles Solved Example	00:21:03
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	Chapter:-2-Impulse and Collision	Video:Duration
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45	Mech2__Ch2_2_Impulse and Collision Momentum Equation	00:22:59
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47	Mech2__Ch2_4_Analysing Impulse Forces & Application of Impulse Equations	00:22:02
48	Mech2__Ch2_5_Analysing Impulse Forces & Application of Impulse Equations	00:33:23
49	Mech2__Ch2_6_Collision	00:32:59
50	Mech2__Ch2_7_Newton's Empirical Formula for Collision	00:25:06
51	Mech2__Ch2_8_Newton's Empirical Formula for Collision	00:15:22
52	Mech2__Ch2_9_Collision Head On	00:31:10
53	Mech2__Ch2_10_Collision Head On	00:27:13
54	Mech2__Ch2_11_Collision Head On Illustrations	00:13:51
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56	Mech2__Ch2_13_Oblique Collision	00:17:07
57	Mech2__Ch2_14_Oblique Collision Illustrations	00:18:24
58	Mech2__Ch2_15_Oblique Collision Illustrations	00:19:20
59	Mech2__Ch2_16_Oblique Collision Two Moving Objects	00:10:54
60	Mech2__Ch2_17_Oblique Collision Two Disk Illustrations	00:16:21
61	Mech2__Ch2_18_Oblique Collision Two Disk Illustrations	00:13:49
62	Mech2__Ch2_19_Oblique Collision Two Disk Illustrations	00:24:18
63	Mech2__Ch2_20_Oblique Collision Particle and Wedge	00:32:50
64	Mech2__Ch2_21_Oblique Collision Particle and Wedge Illustrations	00:21:47
65	Mech2__Ch2_22_Oblique Collision Particle and Wedge Illustrations	00:27:05
66	Mech2__Ch2_23_Thrust Force Exerted by Flowing Fluid	00:35:26
67	Mech2__Ch2_24_Variable Mass System	00:35:07
68	Mech2__Ch2_25_Variable Mass System	00:31:56
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71	Mech2__Ch2_2_Solved Example Centre of Mass	00:15:31
72	Mech2__Ch2_3_Solved Example Centre of Mass	00:12:37
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75	Mech2__Ch2_6_Solved Example Centre of Mass	00:15:27
76	Mech2__Ch2_7_Solved Example Centre of Mass	00:11:27
77	Mech2__Ch2_8_Solved Example Centre of Mass	00:13:39
78	Mech2__Ch2_9_Solved Example Centre of Mass	00:13:13
79	Mech2__Ch2_10_Solved Example Centre of Mass	00:09:00
80	Mech2__Ch2_11_Solved Example Centre of Mass	00:13:35
81	Mech2__Ch2_12_Solved Example Centre of Mass	00:14:11
82	Mech2__Ch2_13_Solved Example Centre of Mass	00:10:00
83	Mech2__Ch2_14_Solved Example Centre of Mass	00:08:30
84	Mech2__Ch2_15_Solved Example Centre of Mass	00:11:21
85	Mech2__Ch2_16_Solved Example Centre of Mass	00:09:27
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	Chapter:-3-Rigid Body Dynamics Part 1	Video:Duration
86	Mech2__Ch3_1_Basics of Rotational Motion Defining Rigid body	00:25:42
87	Mech2__Ch3_2_Basics of Rotational Motion Defining Rigid body	00:23:16
88	Mech2__Ch3_3_Basics of Rotational Motion Defining Rigid body	00:19:49
89	Mech2__Ch3_4_Types of Rotational Motion	00:18:02
90	Mech2__Ch3_5_Types of Rotational Motion	00:27:37
91	Mech2__Ch3_6_Rigid Body Dynamics Instantaneous Axis Of Rotation	00:25:49
92	Mech2__Ch3_7_Rigid Body Dynamics Instantaneous Axis Of Rotation	00:20:08
93	Mech2__Ch3_8_Rigid Body Dynamics Rolling Motion	00:19:54
94	Mech2__Ch3_9_Rigid Body Dynamics Rolling Motion	00:20:13
95	Mech2__Ch3_10_Rigid Body Dynamics Rolling Motion As Pure Rotation about Point of Contact	00:19:31
96	Mech2__Ch3_11_Rigid Body Dynamics Rolling On Curved Surface	00:20:48
97	Mech2__Ch3_12_Rigid Body Dynamics Constraint Relations in case of Rotation and translation Combined	00:22:59
98	Mech2__Ch3_13_Rigid Body Dynamics Constraint Relations in case of Rotation and translation Combined	00:07:37
99	Mech2__Ch3_14_Rigid Body Dynamics Constraint Due to Rod having Translational and Rotational motion combined	00:11:04

100	Mech2__Ch3_15_Moment of Inertia	00:22:31
101	Mech2__Ch3_16_Moment of Inertia	00:25:38
102	Mech2__Ch3_17_Moment of Inertia	00:20:10
103	Mech2__Ch3_18_Radius of Gyration	00:17:47
104	Mech2__Ch3_19_Moment of Inertia About a General Axis of Rotation	00:16:20
105	Mech2__Ch3_20_Moment of Inertia About a General Axis of Rotation	00:13:09
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108	Mech2__Ch3_23_Moment of Inertia About a General Axis of Rotation Illustrations	00:16:37
109	Mech2__Ch3_24_Concept of Torque and Rotational Equilibrium	00:32:35
110	Mech2__Ch3_25_Concept of Torque and Rotational Equilibrium	00:13:20
111	Mech2__Ch3_26_Concept of Torque and Rotational Equilibrium Application of Concepts	00:24:32
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115	Mech2__Ch3_30_Concept of Torque and Rotational Equilibrium Application of Concepts	00:17:19
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117	Mech2__Ch3_32_Torque Toppling and Shifting of Normal Reaction	00:21:29
118	Mech2__Ch3_33_Torque Toppling and Shifting of Normal Reaction	00:21:32
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120	Mech2__Ch3_35_Torque Toppling and Shifting of Normal Reaction illustration	00:17:10
121	Mech2__Ch3_36_Newton's Second Law for Rotational Motion	00:28:08
122	Mech2__Ch3_37_Newton's Second Law for Rotational Motion	00:19:54
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125	Mech2__Ch3_2_Solved Example Rigid Body Dynamics	00:12:51
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132	Mech2__Ch3_9_Solved Example Rigid Body Dynamics	00:07:44
133	Mech2__Ch3_10_Solved Example Rigid Body Dynamics	00:12:29
134	Mech2__Ch3_11_Solved Example Rigid Body Dynamics	00:10:01
135	Mech2__Ch3_12_Solved Example Rigid Body Dynamics	00:14:29

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137	Mech2__Ch4_2_Rigid Body Dynamics Angular Mometum of A Particle	00:15:53
138	Mech2__Ch4_3_Rigid Body Dynamics Angular Mometum of a System of Particles	00:13:23
139	Mech2__Ch4_4_Rigid Body Dynamics Angular Mometum of a System of Particles	00:15:17
140	Mech2__Ch4_5_Rigid Body Dynamics Angular Mometum of a Rigid body Due to Translation and Rotation both	00:21:41
141	Mech2__Ch4_6_Rigid Body Dynamics Angular Mometum of a Rigid body Due to Translation and Rotation both	00:12:25
142	Mech2__Ch4_7_Rigid Body Dynamics Angular Impulse Momentum Theorem	00:13:10
143	Mech2__Ch4_8_Rigid Body Dynamics Laws of Conservation of Angular Momentum	00:23:03
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145	Mech2__Ch4_10_Rigid Body Dynamics Laws of Conservation of Angular Momentum Illustrations	00:30:40
146	Mech2__Ch4_11_Rigid Body Dynamics Combined Translation and Rotation	00:28:15
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148	Mech2__Ch4_13_Rigid Body Dynamics Combined Translation and Rotation	00:23:37
149	Mech2__Ch4_14_Rigid Body Dynamics Combined Translation and Rotation	00:24:00
150	Mech2__Ch4_15_Rigid Body Dynamics Combined Translation and Rotation	00:25:06
151	Mech2__Ch4_16_Rolling Dynamics of Rolling Motion without net External Force	00:25:42
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155	Mech2__Ch4_20_Rolling Dynamics of Rolling Motion Under net External Force	00:33:15
156	Mech2__Ch4_21_Rolling Dynamics of Rolling Motion Under net External Force	00:24:07
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159	Mech2__Ch4_24_Rigid body Dynamics Kinetic Energy of Rigid Body Illustrations	00:20:31
160	Mech2__Ch4_25_Rigid body Dynamics Kinetic Energy of a Body Rolling on a Fixed Surfaces	00:12:36
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162	Mech2__Ch4_27_Rigid body Dynamics Rotational Work And Power	00:16:36
163	Mech2__Ch4_28_Rigid body Dynamics Work Energy Theorem For Roatational Motion	00:32:10
164	Mech2__Ch4_29_Rigid body Dynamics Conservation of Mechanical Energy	00:11:53
165	Mech2__Ch4_30_Rigid body Dynamics Conservation of Mechanical Energy Illustrations	00:24:45

166	Mech2__Ch4_31_Rigid body Dynamics Conservation of Mechanical Energy Illustrations	00:25:41
167	Mech2__Ch4_32_Rigid body Dynamics Rolling of A Body on An inclined plane	00:27:41
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169	Mech2__Ch4_34_Rigid body Dynamics Rolling of A Body on An inclined plane Illustrations	00:22:56
170	Mech2__Ch4_35_Rigid body Dynamics Rolling of A Body on An inclined plane Illustrations	00:19:41
171	Mech2__Ch4_36_Rigid body Dynamics Angular Impulse	00:30:13
172	Mech2__Ch4_37_Rigid body Dynamics Angular Impulse Illustrations	00:20:34
173	Mech2__Ch4_38_Rigid body Dynamics Angular Impulse Illustrations	00:27:09
174	Mech2__Ch4_39_Rigid body Dynamics Collision of Rigid Body	00:30:17
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179	Mech2__Ch4_44_Rigid body Dynamics Collision of a Rod and Particle	00:14:57
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185	Mech2__Ch4_2_Rigid Body Dynamics Solved Example	00:27:01
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200	Mech2__Ch5_2_Gravitation Kepler's Laws of Planetary Motion	00:14:09
201	Mech2__Ch5_3_Newton's Law of Universal Gravitation	00:24:39
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203	Mech2__Ch5_5_Newton's Law of Universal Gravitation Illustrations	00:19:22
204	Mech2__Ch5_6_Gravitational force between an Extended object and a Particle	00:08:18
205	Mech2__Ch5_7_Gravitational Force between Uniform Sphere or Spherical Shell and Particle	00:11:34
206	Mech2__Ch5_8_Gravitational Field	00:30:41
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211	Mech2__Ch5_13_Variation of Acceleration Due to Gravity Illustrations	00:32:56
212	Mech2__Ch5_14_Gravitational Potential	00:33:32
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218	Mech2__Ch5_20_Gravitation Artificial Satellite	00:27:42
219	Mech2__Ch5_21_Gravitation Artificial Satellite illustration	00:16:20
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221	Mech2__Ch5_23_Gravitation Geostationery and Polar satellite	00:30:43
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224	Mech2__Ch5_3_Gravitationa Solved exampls	00:11:45
225	Mech2__Ch5_4_Gravitationa Solved exampls	00:10:27
226	Mech2__Ch5_5_Gravitationa Solved exampls	00:11:22
227	Mech2__Ch5_6_Gravitationa Solved exampls	00:05:00
228	Mech2__Ch5_7_Gravitationa Solved exampls	00:07:48
229	Mech2__Ch5_8_Gravitationa Solved exampls	00:07:15
230	Mech2__Ch5_9_Gravitationa Solved exampls	00:07:41
231	Mech2__Ch5_10_Gravitationa Solved exampls	00:09:18
232	Mech2__Ch5_11_Gravitationa Solved exampls	00:07:11
233	Mech2__Ch5_12_Gravitationa Solved exampls	00:08:49
234	Mech2__Ch5_13_Gravitationa Solved exampls	00:16:43
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236	Mech2__Ch6_2_Properties of Pressure	00:31:39
237	Mech2__Ch6_3_Properties of Pressure illustration	00:23:54
238	Mech2__Ch6_4_Pascal's Law	00:21:36
239	Mech2__Ch6_5_Measurements of Pressure	00:41:41
240	Mech2__Ch6_6_Measurements of Pressure illustrations	00:13:53
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243	Mech2__Ch6_9_Force on immersed liquid	00:27:10
244	Mech2__Ch6_10_Force on immersed liquid inclined	00:20:30
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250	Mech2__Ch6_16_Fluid uniformly accelerating Motion Analysis of pressure in horizontal Accelerated liquid	00:18:17
251	Mech2__Ch6_17_Modified Manometric Tube	00:36:27
252	Mech2__Ch6_18_Fluid in Uniformly Accelerating Motion	00:37:01
253	Mech2__Ch6_19_The Fluid in Rotation	00:30:00
254	Mech2__Ch6_20_Finding pressure difference in fluid in rotating tube	00:28:21
255	Mech2__Ch6_21_Archimedes Principle	00:23:45
256	Mech2__Ch6_22_Archimedes Principle illustrations	00:25:11
257	Mech2__Ch6_23_Boyancy Floatation	00:37:52
258	Mech2__Ch6_24_Boyancy Floatation	00:34:35
259	Mech2__Ch6_25_Buoyancy Floatation object floating in two layered Liquids	00:23:12
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263	Mech2__Ch6_29_Hydrnautics Continuity Equation	00:28:33
264	Mech2__Ch6_30_Bernoulli Equation	00:15:27
265	Mech2__Ch6_31_Bernoulli Equation	00:21:06
266	Mech2__Ch6_32_Bernoulli Equation Illustrations	00:33:07
267	Mech2__Ch6_33_Bernoulli Equation Illustrations	00:25:53
268	Mech2__Ch6_34_Hydrodynamics Applications Bernoulli's Equation	00:15:05
269	Mech2__Ch6_35_Hydrodynamics Applications Bernoulli's Equation	00:20:05
270	Mech2__Ch6_36_Hydrodynamics Velocity of Efflux	00:18:51
271	Mech2__Ch6_37_Hydrodynamics Force of Reaction due to ejection of liquid	00:13:04

272	Mech2__Ch6_38_Hydrodynamics Force of Reaction due to ejection of liquid illustrations	00:13:16
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275	Mech2__Ch6_3_Solved Example Concept Discussed-The hydrostatic force on the Curved surface	00:12:56
276	Mech2__Ch6_4_Solved Example Concept Discussed- Fluid in Acceleration	00:16:03
277	Mech2__Ch6_5_Solved Example Concept Discussed- Fluid in Rotation	00:14:26
278	Mech2__Ch6_6_Solved Example Concept Discussed- Fluid in Rotation	00:13:45
279	Mech2__Ch6_7_Solved Example Concept Discussed- Buoyancy and Floatation	00:08:48
280	Mech2__Ch6_8_Solved Example Concept Discussed- Buoyancy and Floatation	00:16:13
281	Mech2__Ch6_9_Solved Example Concept Discussed- Buoyancy and Floatation	00:12:03
282	Mech2__Ch6_10_Solved Example Concept Discussed- Buoyancy and Floatation	00:08:36
283	Mech2__Ch6_11_Solved Example Concept Discussed- Buoyancy and Floatation	00:10:05
284	Mech2__Ch6_12_Solved Example Concept Discussed- Bernoulli's Equation and continuity of equation	00:12:40
285	Mech2__Ch6_13_Solved Example Concept Discussed- Buoyancy and Floatation	00:13:41
286	Mech2__Ch6_14_Solved Example Concept Discussed- Velocity of efflux	00:21:40
287	Mech2__Ch6_15_Solved Example Concept Discussed- Velocity of efflux and thrust force applied by liquid jet	00:08:26
288	Mech2__Ch6_16_Solved Example Concept Discussed- Velocity of efflux and thrust force applied by liquid jet	00:21:38
	Total Durations	19:49:47
	Chapter:-7-Elasticity	Video:Duration
289	Mech2__Ch7_1_Elastic Properties of Solids	00:28:11
290	Mech2__Ch7_2_Elastic Properties of Solids Illustrations	00:09:26
291	Mech2__Ch7_3_Volumetric and Shear Stress	00:15:26
292	Mech2__Ch7_4_Volumetric and Shear Stress Illustrations	00:24:01
293	Mech2__Ch7_5_Modulus of Elasticity and Hooke's law	00:18:42
294	Mech2__Ch7_6_Modulus of Elasticity and Hooke's law Illustrations	00:26:41
295	Mech2__Ch7_7_Modulus of Elasticity and Hooke's law Illustrations	00:36:18
296	Mech2__Ch7_8_Breaking of a Wire or a Rod	00:14:09
297	Mech2__Ch7_9_Analogy of Rod as a Spring	00:14:42
298	Mech2__Ch7_10_Analogy of Rod as a Spring illustrations	00:21:15
299	Mech2__Ch7_11_Analogy of Rod as a Spring illustrations	00:27:03

300	Mech2__Ch7_12_Shear Modulus of Elasticity	00:15:01
301	Mech2__Ch7_13_Bulk Modulus of Elasticity	00:20:13
302	Mech2__Ch7_14_Bulk Modulus of Elasticity Illustrations	00:11:27
303	Mech2__Ch7_15_Elastic Potential Energy	00:20:11
304	Mech2__Ch7_16_Elastic Potential Energy Illustrations	00:22:56
305	Mech2__Ch7_17_Stress-Strain Curve	00:24:17
306	Mech2__Ch7_18_Elastic Hysteresis	00:24:27
	Solved Examples	
307	Mech2__Ch7_1_Solved Example Longitudinal Stress Strain Young's Modulus of Elasticity	00:12:59
308	Mech2__Ch7_2_Solved Example Longitudinal Stress Strain Young's Modulus of Elasticity	00:05:49
309	Mech2__Ch7_3_Solved Example Finding a normal Stress	00:07:48
310	Mech2__Ch7_4_Solved Example Elastic Energy Stored in an Object	00:07:22
311	Mech2__Ch7_5_Solved Example Longitudinal Stress Strain Young's Modulus of Elasticity	00:13:03
312	Mech2__Ch7_6_Solved Example Analyzing the Breaking or Rupture Strength of a Rotating Rod	00:09:00
313	Mech2__Ch7_7_Solved Example Longitudinal Stress Strain Young's Modulus of Elasticity	00:10:16
314	Mech2__Ch7_8_Solved Example Analyzing the Breaking or Rupture Strength of a Circular ring	00:13:41
315	Mech2__Ch7_9_Solved Example Elastic potential Energy	00:06:05
	Total Durations	7:40:29
	Chapter:-8-Surface Tesnsion & Viscosity	Video:Duration
316	Mech2__Ch8_1_Surface Tension	00:29:00
317	Mech2__Ch8_2_Types of molecular forces and angle of contact	00:18:24
318	Mech2__Ch8_3_Determination of Coefficient of Surface Tension	00:15:15
319	Mech2__Ch8_4_Illustration Based on Force Of Surface Tension	00:21:44
320	Mech2__Ch8_5_Surface Energy	00:24:12
321	Mech2__Ch8_6_Surface Energy Application	00:19:03
322	Mech2__Ch8_7_Shape of Liquids Meniscus	00:14:27
323	Mech2__Ch8_8_Excess Pressure inside a curved surface	00:13:21
324	Mech2__Ch8_9_Excess Pressure inside an air Bubble-drop inside liquid	00:15:41
325	Mech2__Ch8_10_Excess Pressure inside Soap bubble	00:11:08
326	Mech2 Ch8 11 Illustrations on Excess Pressure	00:22:11

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