

Lecture Videos for DOM 6ed.

<b>Lect.</b>	<b>Snippet</b>	<b>Topic</b>	<b>URL:</b>	<b>min:sec</b>
1		<b>Introduction</b>	<a href="http://www.designofmachinery.com/DOM/Introduction.mp4">http://www.designofmachinery.com/DOM/Introduction.mp4</a>	39:10
2		<b>Design Process and Documentation</b>	<a href="http://www.designofmachinery.com/DOM/Design_Process_and_Documentation.mp4">http://www.designofmachinery.com/DOM/Design_Process_and_Documentation.mp4</a>	43:28
	2A	<i>Design Process</i>	<a href="http://www.designofmachinery.com/DOM/Design_Process.mp4">http://www.designofmachinery.com/DOM/Design_Process.mp4</a>	29:46
	2B	<i>Documentation</i>	<a href="http://www.designofmachinery.com/DOM/Documentation.mp4">http://www.designofmachinery.com/DOM/Documentation.mp4</a>	15:57
	2C	<i>Units of Mass</i>	<a href="http://www.designofmachinery.com/DOM/Units.mp4">http://www.designofmachinery.com/DOM/Units.mp4</a>	10:06
3		<b>Kinematics Fundamentals</b>	<a href="http://www.designofmachinery.com/DOM/Kinematics_Fundamentals.mp4">http://www.designofmachinery.com/DOM/Kinematics_Fundamentals.mp4</a>	49:12
	3A	<i>Degree of Freedom</i>	<a href="http://www.designofmachinery.com/DOM/DOF.mp4">http://www.designofmachinery.com/DOM/DOF.mp4</a>	03:53
	3B	<i>Links and Joints</i>	<a href="http://www.designofmachinery.com/DOM/Links_and_Joints.mp4">http://www.designofmachinery.com/DOM/Links_and_Joints.mp4</a>	11:00
	3C	<i>Grubler</i>	<a href="http://www.designofmachinery.com/DOM/Grubler.mp4">http://www.designofmachinery.com/DOM/Grubler.mp4</a>	14:29
	3D	<i>Number Synthesis</i>	<a href="http://www.designofmachinery.com/DOM/Number_Synthesis.mp4">http://www.designofmachinery.com/DOM/Number_Synthesis.mp4</a>	03:47
	3E	<i>Isomers</i>	<a href="http://www.designofmachinery.com/DOM/Isomers.mp4">http://www.designofmachinery.com/DOM/Isomers.mp4</a>	04:15
	3F	<i>Inversion</i>	<a href="http://www.designofmachinery.com/DOM/Inversion.mp4">http://www.designofmachinery.com/DOM/Inversion.mp4</a>	03:40
	3G	<i>Grashof Condition</i>	<a href="http://www.designofmachinery.com/DOM/The_Grashof_Condition.mp4">http://www.designofmachinery.com/DOM/The_Grashof_Condition.mp4</a>	07:21
	3H	<i>Fivebar</i>	<a href="http://www.designofmachinery.com/DOM/Fivebar.mp4">http://www.designofmachinery.com/DOM/Fivebar.mp4</a>	1:33
	3I	<i>Compliant Linkages</i>	<a href="http://www.designofmachinery.com/DOM/Compliant_Linkages.mp4">http://www.designofmachinery.com/DOM/Compliant_Linkages.mp4</a>	1:27
4		<b>Position Synthesis</b>	<a href="http://www.designofmachinery.com/DOM/Position_Synthesis.mp4">http://www.designofmachinery.com/DOM/Position_Synthesis.mp4</a>	47:57
5		<b>Quick Return Linkages</b>	<a href="http://www.designofmachinery.com/DOM/Quick_Return_Linkages.mp4">http://www.designofmachinery.com/DOM/Quick_Return_Linkages.mp4</a>	55:22
6		<b>Coupler Curves and Atlases</b>	<a href="http://www.designofmachinery.com/DOM/Coupler_Curves.mp4">http://www.designofmachinery.com/DOM/Coupler_Curves.mp4</a>	59:57
7		<b>Symmetrical and Straight Coupler Curves</b>	<a href="http://www.designofmachinery.com/DOM/Symmetrical_and_Straight_Coupler_Curves.mp4">http://www.designofmachinery.com/DOM/Symmetrical_and_Straight_Coupler_Curves.mp4</a>	14:47
	7A	Symmetrical Coupler Curves	<a href="http://www.designofmachinery.com/DOM/Symmetrical_Coupler_Curves.mp4">http://www.designofmachinery.com/DOM/Symmetrical_Coupler_Curves.mp4</a>	05:47
	7B	Straight Line Linkages	<a href="http://www.designofmachinery.com/DOM/Straight_Line_Linkages.mp4">http://www.designofmachinery.com/DOM/Straight_Line_Linkages.mp4</a>	09:20
8		<b>Cognates of Linkages</b>	<a href="http://www.designofmachinery.com/DOM/Cognates_of_Linkages.mp4">http://www.designofmachinery.com/DOM/Cognates_of_Linkages.mp4</a>	18:12
9		<b>Parallel Motion</b>	<a href="http://www.designofmachinery.com/DOM/Parallel_Motion.mp4">http://www.designofmachinery.com/DOM/Parallel_Motion.mp4</a>	21:49
10		<b>Dwell Linkages</b>	<a href="http://www.designofmachinery.com/DOM/Dwell_Mechanisms.mp4">http://www.designofmachinery.com/DOM/Dwell_Mechanisms.mp4</a>	35:36
11		<b>Position Analysis</b>	<a href="http://www.designofmachinery.com/DOM/Position_Analysis.mp4">http://www.designofmachinery.com/DOM/Position_Analysis.mp4</a>	49:48
12		<b>Analytical Synthesis</b>	<a href="http://www.designofmachinery.com/DOM/Analytical_Linkage_Synthesis.mp4">http://www.designofmachinery.com/DOM/Analytical_Linkage_Synthesis.mp4</a>	48:17
13		<b>Instant Centers and Centroides</b>	<a href="http://www.designofmachinery.com/DOM/Instant_Centers_and_Centroides.mp4">http://www.designofmachinery.com/DOM/Instant_Centers_and_Centroides.mp4</a>	49:16
	13A	Instant Centers	<a href="http://www.designofmachinery.com/DOM/Instant_Centers_Tutorial.mp4">http://www.designofmachinery.com/DOM/Instant_Centers_Tutorial.mp4</a>	28:55
	13B	Centroides	<a href="http://www.designofmachinery.com/DOM/Centroides.mp4">http://www.designofmachinery.com/DOM/Centroides.mp4</a>	21:01
14		<b>Velocity Analysis with ICs</b>	<a href="http://www.designofmachinery.com/DOM/Velocity_Analysis_with_ICs.mp4">http://www.designofmachinery.com/DOM/Velocity_Analysis_with_ICs.mp4</a>	49:48
15		<b>Velocity Analysis with Vectors</b>	<a href="http://www.designofmachinery.com/DOM/Velocity_Analysis_with_Vectors.mp4">http://www.designofmachinery.com/DOM/Velocity_Analysis_with_Vectors.mp4</a>	46:41
16		<b>Acceleration Analysis</b>	<a href="http://www.designofmachinery.com/DOM/Acceleration_Analysis.mp4">http://www.designofmachinery.com/DOM/Acceleration_Analysis.mp4</a>	41:39
Lab		<b>Fourbar Linkage Virtual Laboratory Video</b>	<a href="http://www.designofmachinery.com/DOM/Fourbar_Machine_Virtual_laboratory.mp4">http://www.designofmachinery.com/DOM/Fourbar_Machine_Virtual_laboratory.mp4</a>	35:38
Lab		<b>Fourbar Linkage Virtual Laboratory Data</b>	<a href="http://www.designofmachinery.com/DOM/Fourbar_Virtual_Lab.zip">http://www.designofmachinery.com/DOM/Fourbar_Virtual_Lab.zip</a>	–
17		<b>Cam Design I</b>	<a href="http://www.designofmachinery.com/DOM/Cam_Design_I.mp4">http://www.designofmachinery.com/DOM/Cam_Design_I.mp4</a>	50:42

18	<b>Cam Design II</b>	<a href="http://www.designofmachinery.com/DOM/Cam_Design_II.mp4">http://www.designofmachinery.com/DOM/Cam_Design_II.mp4</a>	51:16
19	<b>Cam Design III</b>	<a href="http://www.designofmachinery.com/DOM/Cam_Design_III.mp4">http://www.designofmachinery.com/DOM/Cam_Design_III.mp4</a>	48:54
<b>Lab</b>	<b>Cam Machine Virtual Laboratory Video</b>	<a href="http://www.designofmachinery.com/DOM/Cam_machine_virtual_laboratory.mp4">http://www.designofmachinery.com/DOM/Cam_machine_virtual_laboratory.mp4</a>	21:28
<b>Lab</b>	<b>Cam Machine Virtual Laboratory Data</b>	<a href="http://www.designofmachinery.com/DOM/Cam_Virtual_Lab.zip">http://www.designofmachinery.com/DOM/Cam_Virtual_Lab.zip</a>	–
20	<b>Gear Design I</b>	<a href="http://www.designofmachinery.com/DOM/Gear_Design.mp4">http://www.designofmachinery.com/DOM/Gear_Design.mp4</a>	54:45
21	<b>Gear Design II</b>	<a href="http://www.designofmachinery.com/DOM/Gear_Trains.mp4">http://www.designofmachinery.com/DOM/Gear_Trains.mp4</a>	37:53
22	<b>Gear Design III</b>	<a href="http://www.designofmachinery.com/DOM/Gear_Transmissions.mp4">http://www.designofmachinery.com/DOM/Gear_Transmissions.mp4</a>	41:06
23	<b>Dynamics Fundamentals</b>	<a href="http://www.designofmachinery.com/DOM/Dynamics_Fundamentals.mp4">http://www.designofmachinery.com/DOM/Dynamics_Fundamentals.mp4</a>	52:01
23A	<i>Newtons Laws</i>	<a href="http://www.designofmachinery.com/DOM/Newtons_Laws.mp4">http://www.designofmachinery.com/DOM/Newtons_Laws.mp4</a>	04:00
23B	<i>Units of Mass</i>	<a href="http://www.designofmachinery.com/DOM/Mass.mp4">http://www.designofmachinery.com/DOM/Mass.mp4</a>	10:06
23C	<i>Moments of Mass</i>	<a href="http://www.designofmachinery.com/DOM/Moments_of_Mass.mp4">http://www.designofmachinery.com/DOM/Moments_of_Mass.mp4</a>	04:33
23D	<i>Transfer Theorem</i>	<a href="http://www.designofmachinery.com/DOM/Transfer_Theorem.mp4">http://www.designofmachinery.com/DOM/Transfer_Theorem.mp4</a>	02:15
23E	<i>Radius of Gyration</i>	<a href="http://www.designofmachinery.com/DOM/Radius_of_Gyration.mp4">http://www.designofmachinery.com/DOM/Radius_of_Gyration.mp4</a>	01:21
23F	<i>Rotating Links</i>	<a href="http://www.designofmachinery.com/DOM/Rotating_Links.mp4">http://www.designofmachinery.com/DOM/Rotating_Links.mp4</a>	02:11
23G	<i>Center of Percussion</i>	<a href="http://www.designofmachinery.com/DOM/Center_of_Percussion.mp4">http://www.designofmachinery.com/DOM/Center_of_Percussion.mp4</a>	06:58
23H	<i>Equivalent Systems</i>	<a href="http://www.designofmachinery.com/DOM/Equivalent_Systems.mp4">http://www.designofmachinery.com/DOM/Equivalent_Systems.mp4</a>	14:53
23I	<i>Lumped Models</i>	<a href="http://www.designofmachinery.com/DOM/Lumped_Models.mp4">http://www.designofmachinery.com/DOM/Lumped_Models.mp4</a>	19:39
23J	<i>Lever Ratios</i>	<a href="http://www.designofmachinery.com/DOM/Lever_Ratios.mp4">http://www.designofmachinery.com/DOM/Lever_Ratios.mp4</a>	05:16
23K	<i>Modeling Systems</i>	<a href="http://www.designofmachinery.com/DOM/Modeling_Systems.mp4">http://www.designofmachinery.com/DOM/Modeling_Systems.mp4</a>	06:44
23L	<i>D'Alembert Force</i>	<a href="http://www.designofmachinery.com/DOM/DAlembert.mp4">http://www.designofmachinery.com/DOM/DAlembert.mp4</a>	03:36
23M	<i>Centrifugal Force</i>	<a href="http://www.designofmachinery.com/DOM/Centrifugal_Force.mp4">http://www.designofmachinery.com/DOM/Centrifugal_Force.mp4</a>	01:31
24	<b>Dynamic Force Analysis</b>	<a href="http://www.designofmachinery.com/DOM/Dynamic_Force_Analysis.mp4">http://www.designofmachinery.com/DOM/Dynamic_Force_Analysis.mp4</a>	27:28
24A	<i>Single Link in Rotation</i>	<a href="http://www.designofmachinery.com/DOM/Single_Link_in_Rotation.mp4">http://www.designofmachinery.com/DOM/Single_Link_in_Rotation.mp4</a>	15:29
24B	<i>Fourbar Force Analysis</i>	<a href="http://www.designofmachinery.com/DOM/Fourbar_Force_Analysis.mp4">http://www.designofmachinery.com/DOM/Fourbar_Force_Analysis.mp4</a>	12:18
<b>Lab</b>	<b>Fourbar Linkage Virtual Laboratory Video</b>	<a href="http://www.designofmachinery.com/DOM/Fourbar_Machine_Virtual_laboratory.mp4">http://www.designofmachinery.com/DOM/Fourbar_Machine_Virtual_laboratory.mp4</a>	35:38
<b>Lab</b>	<b>Fourbar Linkage Virtual Laboratory Data</b>	<a href="http://www.designofmachinery.com/DOM/Fourbar_Virtual_Lab.zip">http://www.designofmachinery.com/DOM/Fourbar_Virtual_Lab.zip</a>	–
25	<b>Virtual Work and Flywheels</b>	<a href="http://www.designofmachinery.com/DOM/Virtual_Work_and_Flywheels.mp4">http://www.designofmachinery.com/DOM/Virtual_Work_and_Flywheels.mp4</a>	34.50
25C	<i>Virtual Work</i>	<a href="http://www.designofmachinery.com/DOM/Virtual_Work.mp4">http://www.designofmachinery.com/DOM/Virtual_Work.mp4</a>	10:52
25D	<i>Flywheels</i>	<a href="http://www.designofmachinery.com/DOM/Flywheels.mp4">http://www.designofmachinery.com/DOM/Flywheels.mp4</a>	24:07
26	<b>Balancing</b>	<a href="http://www.designofmachinery.com/DOM/Balancing.mp4">http://www.designofmachinery.com/DOM/Balancing.mp4</a>	48:09
26A	<i>Static Balance</i>	<a href="http://www.designofmachinery.com/DOM/Static_Balance.mp4">http://www.designofmachinery.com/DOM/Static_Balance.mp4</a>	09:58
26B	<i>Dynamic Balance</i>	<a href="http://www.designofmachinery.com/DOM/Dynamic_Balance.mp4">http://www.designofmachinery.com/DOM/Dynamic_Balance.mp4</a>	09:42
26C	<i>Linkage Balancing</i>	<a href="http://www.designofmachinery.com/DOM/Linkage_Balancing.mp4">http://www.designofmachinery.com/DOM/Linkage_Balancing.mp4</a>	26.55
<b>Lab</b>	<b>Fourbar Linkage Virtual Laboratory Video</b>	<a href="http://www.designofmachinery.com/DOM/Fourbar_Machine_Virtual_laboratory.mp4">http://www.designofmachinery.com/DOM/Fourbar_Machine_Virtual_laboratory.mp4</a>	35:38
<b>Lab</b>	<b>Fourbar Linkage Virtual Laboratory Data</b>	<a href="http://www.designofmachinery.com/DOM/Fourbar_Virtual_Lab.zip">http://www.designofmachinery.com/DOM/Fourbar_Virtual_Lab.zip</a>	–
26D	<i>Field Balancing</i>	<a href="http://www.designofmachinery.com/DOM/Field_Balancing.mp4">http://www.designofmachinery.com/DOM/Field_Balancing.mp4</a>	02:43
27	<b>Engine Kinematics</b>	<a href="http://www.designofmachinery.com/DOM/Engine_Kinematics.mp4">http://www.designofmachinery.com/DOM/Engine_Kinematics.mp4</a>	48:17

28	<b>Engine Dynamics</b>	<a href="http://www.designofmachinery.com/DOM/Engine_Dynamics.mp4">http://www.designofmachinery.com/DOM/Engine_Dynamics.mp4</a>	53:17
29	<b>Balancing One Cylinder</b>	<a href="http://www.designofmachinery.com/DOM/Engine_Balancing.mp4">http://www.designofmachinery.com/DOM/Engine_Balancing.mp4</a>	42:38
30	<b>Multicylinder Engines</b>	<a href="http://www.designofmachinery.com/DOM/Multicylinder_Engines.mp4">http://www.designofmachinery.com/DOM/Multicylinder_Engines.mp4</a>	44:25
31	<b>Even Firing</b>	<a href="http://www.designofmachinery.com/DOM/Even_Firing.mp4">http://www.designofmachinery.com/DOM/Even_Firing.mp4</a>	47:29
32	<b>Vee Engines</b>	<a href="http://www.designofmachinery.com/DOM/Vee_Engines.mp4">http://www.designofmachinery.com/DOM/Vee_Engines.mp4</a>	48:25
33	<b>Balancing Multicylinders</b>	<a href="http://www.designofmachinery.com/DOM/Balancing_Multicylinders.mp4">http://www.designofmachinery.com/DOM/Balancing_Multicylinders.mp4</a>	31:12
34	<b>Cam Dynamics</b>	<a href="http://www.designofmachinery.com/DOM/Cam_Dynamics.mp4">http://www.designofmachinery.com/DOM/Cam_Dynamics.mp4</a>	48:29
 <b>Demonstration Videos for DOM 6ed.</b>			
1	<b>Boot Testing Machine</b>	<a href="http://www.designofmachinery.com/DOM/Boot_Tester.mp4">http://www.designofmachinery.com/DOM/Boot_Tester.mp4</a>	19:02
2	<b>Bottle Printing Machine</b>	<a href="http://www.designofmachinery.com/DOM/Bottle_Printing_Machine.mp4">http://www.designofmachinery.com/DOM/Bottle_Printing_Machine.mp4</a>	09:38
3	<b>Grashof Condition</b>	<a href="http://www.designofmachinery.com/DOM/The_Grashof_Condition.mp4">http://www.designofmachinery.com/DOM/The_Grashof_Condition.mp4</a>	24:12
4	<b>High-Speed Spring Failure</b>	<a href="http://www.designofmachinery.com/DOM/Spring_Failure.mp4">http://www.designofmachinery.com/DOM/Spring_Failure.mp4</a>	03:46
5	<b>Pick and Place Mechanism</b>	<a href="http://www.designofmachinery.com/DOM/Pick_and_Place_Mechanism.mp4">http://www.designofmachinery.com/DOM/Pick_and_Place_Mechanism.mp4</a>	36:35
6	<b>Spring Manufacturing Machinery</b>	<a href="http://www.designofmachinery.com/DOM/Spring_Manufacturing.mp4">http://www.designofmachinery.com/DOM/Spring_Manufacturing.mp4</a>	12:21
7	<b>Vibration Testing</b>	<a href="http://www.designofmachinery.com/DOM/Vibration_Testing.mp4">http://www.designofmachinery.com/DOM/Vibration_Testing.mp4</a>	05:51