***SolidWorks Design Tutorials -***

[F1 vs SolidWorks (Time Laspe)](https://www.youtube.com/watch?v=FC3c-QlDvcU&list=PLjf_xn-4I1-cldINF_a5C1vM6sokjvZ5p)

[Step1 F16 Fighting Falcon by SolidWorks.](https://www.youtube.com/watch?v=befDRs1Fl5Y&list=PLjf_xn-4I1-ed8374hILiqTPE7-AXMicc)

[M1 Abrams Tank - SOLIDWORKS Speed-Up Modeling.](https://www.youtube.com/watch?v=2HORp8zwWCA&list=PLjf_xn-4I1-cbufF08Z-ev5JG_aUO3MCV)

[Step 1 How to Model Helicopter by SolidWorks.](https://www.youtube.com/watch?v=Oiv1mqataB8&list=PLjf_xn-4I1-cnegk7vst87fqPPEw74siE)

[V6 Car Engine Complete Tutorial SolidWorks 2021 STEP by STEP, Advanced Assembly](https://www.youtube.com/watch?v=cZJcM8417AU)

***Official ANSYS Analysis Courses -***

* [***Student Design Team Courses***](https://courses.ansys.com/index.php/student-teams/)

### [***BAJA SAE Chassis Dynamic Analysis Using Ansys Mechanical***](https://courses.ansys.com/index.php/courses/explicit-analysis-of-a-chassis/)

### [***BAJA SAE Chassis Analysis***](https://courses.ansys.com/index.php/courses/baja-sae-chassis-analysis/)

***ANSYS Analysis Tutorials (TM Yt)***

[How to design baja Rollcage|SAE-BAJA Rollcage designing in SolidWorks|Design a vehicle rollcage](https://www.youtube.com/watch?v=AVSYePZQyX8)

[Analysis of Rollcage using Ansys Workbench | Baja ATV Rollcage Analysis](https://www.youtube.com/watch?v=udXlJCaJ0GU)

* <https://www.youtube.com/playlist?list=PLKddv44vG2gqzsXO0DZowTipgGAgQVy2t>

***Delta Academy***

[[Geometry Generation] BAJA SAE Roll Cage/Frame Design in ANSYS](https://www.youtube.com/watch?v=2znybdmnXsw)

[[Front Impact Test & Meshing] BAJA SAE Roll Cage/Frame Design in ANSYS Workbench Static Structural](https://www.youtube.com/watch?v=CJ7S6JnruJk)

[[Rear Impact Test] BAJA SAE Roll Cage/Frame Design in ANSYS Workbench Static Structural Analysis](https://www.youtube.com/watch?v=ZZkb4uT8oXM)

[[Side Impact Test] BAJA SAE Roll Cage/Frame Design in ANSYS Workbench Static Structural Analysis](https://www.youtube.com/watch?v=Dd0vZdNiJQY)

[[Front Roll Over] BAJA SAE Roll Cage/Frame Design in ANSYS Workbench Static Structural Analysis](https://www.youtube.com/watch?v=Yc9wlVo-AUQ)

[[Side Roll Over] BAJA SAE Roll Cage/Frame Design in ANSYS Workbench Static Structural Analysis](https://www.youtube.com/watch?v=LyC5xYx_mrA)

<https://www.youtube.com/watch?v=s_G4jIaIbHw> - Torsional Rigidity Test

[[Front Wheel Bump] BAJA SAE Roll Cage/Frame Design in ANSYS Workbench Static Structural Analysis](https://www.youtube.com/watch?v=vgM0YWOQrsc)

[[Rear Wheel Bump] BAJA SAE Roll Cage/Frame Design in ANSYS Workbench Static Structural Analysis](https://www.youtube.com/watch?v=_olwRWSeEF8)

[[Heave Test] BAJA SAE Roll Cage/Frame Design in ANSYS Workbench Static Structural Analysis](https://www.youtube.com/watch?v=1GeJ9eVPdd8)

[[Drop Test] BAJA SAE Roll Cage/Frame Design in ANSYS Workbench Static Structural Analysis](https://www.youtube.com/watch?v=nVa_Duot-pI)[[Modal Analysis] BAJA SAE Roll Cage/Frame Design in ANSYS Workbench Static Structural Analysis](https://www.youtube.com/watch?v=Rpp94x-r45A)

***Baja SAE Chassis Analysis***

### [***BAJA SAE Chassis Analysis***](https://courses.ansys.com/index.php/courses/baja-sae-chassis-analysis/)

[BAJA SAE Chassis Analysis in ANSYS Mechanical - Introduction](https://www.youtube.com/watch?v=B49JVs1HAkY)

[BAJA SAE Chassis Analysis - Geometry Preparation in ANSYS SpaceClaim - Part 1](https://www.youtube.com/watch?v=3F1SQAo6kc4&list=PLtt6-ZgUFmMJIEXqLWqo4cLwv6zJTGquZ&index=2&pp=iAQB)

[BAJA SAE Chassis Analysis - Meshing, Front & Side Impact in ANSYS Mechanical - Part 2](https://www.youtube.com/watch?v=gpYhfJi7Nh8)

[BAJA SAE Chassis Analysis - Roll Over, Rear Impact and Torsional Test in ANSYS Mechanical - Part 3](https://www.youtube.com/watch?v=m-KFWTvAipY)

[BAJA SAE Chassis Analysis - Front Bump & Modal Analysis in ANSYS Mechanical - Part 4](https://www.youtube.com/watch?v=m2me9StF6FY)

***Explicit Dynamical Analysis of a Baja Roll Cage ANSYS Analysis***

### [***BAJA SAE Chassis Dynamic Analysis Using Ansys Mechanical***](https://courses.ansys.com/index.php/courses/explicit-analysis-of-a-chassis/)

[Explicit Analysis of a Roll Cage Using Ansys - Intro](https://www.youtube.com/watch?v=wIDAuJ2Ykgo)

[Explicit Analysis of a Roll Cage Geometry Preparation - Part 1](https://www.youtube.com/watch?v=EDtUeS9C_ik&pp=ygUgZXhwbGljaXQgYW5hbHlzaXMgYW5zeXMgcm9sbGNhZ2U%3D)

[Explicit Analysis of a Roll Cage Model Setup and Solution Part 2](https://www.youtube.com/watch?v=JjhrB02H9x0)

***If Meshing fails***

[Ansys Workbench || Troubleshoot Mesh Errors || FEA || Finite Element Analysis](https://www.youtube.com/watch?v=UrLKbMlPUro)

[Baja Roll cage analysis results in Ansys](https://www.youtube.com/watch?v=eUUoCfNuwzY&pp=ygUXYW5zeXMgYmFqYSBzYWUgYW5hbHlzaXM%3D)

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