

EcosimPro/PROOSIS SIMULATION TOOL VIDEOS
www.ecosimpro.com

(29-July-2020)

YouTube CHANNEL

EcosimPro/PROOSIS channel in YouTube

VIDEO LINK

https://www.youtube.com/channel/UCyglm_rxC-XKujZngy7VUFA

GENERAL

Overview of the the EcosimPro-PROOSIS applications

<https://youtu.be/E29rQv4oJw8>

EcosimPro-PROOSIS toolkits applied to aerospace and energy problems

<https://www.youtube.com/watch?v=jePfnl0LE80>

General presentation of EcosimPro

<https://www.youtube.com/watch?v=bfA8z95LJHE>

3D Visualisation in EcosimPro-PROOSIS

<https://www.youtube.com/watch?v=0K1zbvH7bWA&t=153s>

Automatic testing tool in EcosimPro-PROOSIS

<https://www.youtube.com/watch?v=Sk0ISy234zw>

SIMULATION TOOLIKS

ASYST: Aircraft SYstems Simulation Toolkit

<https://youtu.be/Zb3Plpt8HTA>

CRYOLIB: Modelling cryogenic systems

<https://www.youtube.com/watch?v=V3DrMCCSFek>

ECLSS: Environmental Control System and Life Support toolkit

<https://www.youtube.com/watch?v=ZxUKuuet9o&t=130s>

ESPSS: Modelling Space Propulsion Systems with EcosimPro-ESPSS

<https://youtu.be/l7AYWPtXJBE>

FLUIDAPRO: Modelling fluid systems in EcosimPro-PROOSIS

<https://www.youtube.com/watch?v=7Top3u6xCwM>

STEP-BY-STEP MANUAL (Version 6)

1. Step-by-Step. How to open the program

<https://youtu.be/ncjKbLL4WxE>

2. Step-by-Step. How to create a workspace

<https://youtu.be/NxoTks7ITwo>

3. Step-by-Step. How to work graphically

<https://youtu.be/vo5g4zvsKHw>

4. Step-by-Step. How to code a component

<https://youtu.be/6rk9vbSiPVs>

5. Step-by-Step. How to create a partition and experiment

https://youtu.be/p_UsSAIETiY

6. Step-by-Step. How to encapsulate a model into a deck

<https://youtu.be/BXmJrvJ1JbE>

7. Step-by-Step. How to simulate a model

<https://youtu.be/FbGx1FTIPXU>

8. Step-by-Step. Graphical simulation tool

<https://youtu.be/FnPIN5XDpqM>

9. Step-by-Step. Simulation from the schematics tool

<https://youtu.be/FQ3ceDtBCqk>

10. Step-by-Step. Generating simulation reports

<https://youtu.be/lfpayPuWccY>

11. Step-by-Step. Simulation from Excel

<https://youtu.be/ih76h8zvlH4>

12. Step-by-Step. Connection with MS VC++

<https://youtu.be/aTOcl581UUU>

13. Step-by-Step. Connection with Matlab and Simulink

<https://youtu.be/TAsCjntB7II>

14. Step-by-Step. Connection with FMI-FMU standard

<https://youtu.be/MelJQskKT7s>

15. Step-by-Step. Connection with OPC-UA standard

<https://youtu.be/iWPtCP4GpXo>

MODELLING EXAMPLES

EcosimPro/PROOSIS SIMULATION TOOL VIDEOS
www.ecosimpro.com

(29-July-2020)

Modelling a turbojet in PROOSIS	https://www.youtube.com/watch?v=9RyCuiG-YZk
Modelling and three body problem in EcosimPro	https://www.youtube.com/watch?v=zivy6s3Yc_A
Using the boundary selection wizards in EcosimPro-PROOSIS	https://www.youtube.com/watch?v=T1Jkkwd1zm4
Simulating sledge slicing by ski track in EcosimPro-PROOSIS	https://www.youtube.com/watch?v=4Ep3z9G5oY
Simulating a robotic arm in EcosimPro	https://www.youtube.com/watch?v=IBSv-S7rwMM

EXAMPLES FROM BOOK "Introduction to Modelling and Simulation with EcosimPro" (F. Vazquez et al.)

Modelling a first order equations system (page 21)	https://youtu.be/2-ld-A7Gw9A
Modelling a parabolic shot (page 35)	https://youtu.be/lICMuv4wCO0
Modelling a Van Der Pol oscillator (page 43)	https://youtu.be/2-ld-A7Gw9A
Modelling a bouncing ball (page 47)	https://youtu.be/9phErS2lc3o
Modelling a mechanical system (page 52)	https://youtu.be/vlPpcHlVnhQ
Modelling a heater (page 57)	https://youtu.be/wxgR8SIHhNM
Modelling several cyclists (page 60)	https://youtu.be/MjvQoyLpSXo
Modelling a population dynamics (page 64)	https://youtu.be/Mc-XdAiMr_E
Modelling a tank (page 66)	https://youtu.be/uujt7JsuAQ8
Modelling a diode (page 74)	https://youtu.be/jtZ4gDRFJoY
Modelling a open loop system (page 120)	https://youtu.be/qQkggytISew
Modelling an open loop system + PI controller (page 126)	https://youtu.be/A67F9N9gg4Q
Modelling of linear systems in state space (page 134)	https://youtu.be/wEVTNb7QOiu
Modelling a linear system with a transfer function (page 138)	https://youtu.be/HtbDSLWjGw
Modelling a on/off control for a plant (page 143)	https://youtu.be/XB_TUI_Za2k
Modelling with a PID controller (page 144)	https://youtu.be/AYM6m4fUH-w
Modelling masses and springs (page 147)	https://youtu.be/kgI9kOHvFho
Modelling mechanical system with discs and clutches (page 152)	https://youtu.be/457lP6kLd54
Modelling a mechanical system with control (page 156)	https://youtu.be/Xrs5VG_SrDk
Modelling a thermal system (page 160)	https://youtu.be/fpwhjoFmls4
Modelling an electric circuit (page 164)	https://youtu.be/nQe9Hh31vWg
Modelling an electronic system (page 167)	https://youtu.be/x-WfKXfWnVY