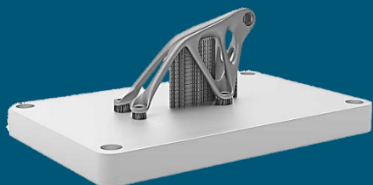


## Course/Topic

## Altair Solution

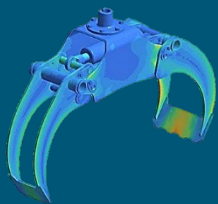
## Free Learning Collateral

**DIGITAL MANUFACTURING**  
Emphasis: 3D printing & light-weighting



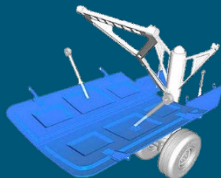
| Product Page            | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|-------------------------|-------|-----------|---------------|-----------|-----------|----------|
| Inspire                 |       |           |               |           |           |          |
| Inspire Cast            |       |           |               |           |           |          |
| Inspire Print3D         |       |           |               |           |           |          |
| Inspire Form            |       |           |               |           |           |          |
| Inspire Extrude Metal   |       |           |               |           |           |          |
| Inspire Extrude Polymer |       |           |               |           |           |          |

**STRUCTURAL ANALYSIS**  
Emphasis: FEA & Topology Optimization



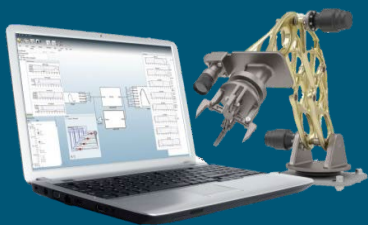
| Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|--------------|-------|-----------|---------------|-----------|-----------|----------|
| Inspire      |       |           |               |           |           |          |
| SimSolid     |       |           |               |           |           |          |
| HyperMesh    |       |           |               |           |           |          |
| OptiStruct   |       |           |               |           |           |          |
| HyperView    |       |           |               |           |           |          |
| SimLab       |       |           |               |           |           |          |

**KINEMATICS & DYNAMICS**  
Emphasis: Multi-body Simulation



| Product Page             | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|--------------------------|-------|-----------|---------------|-----------|-----------|----------|
| Inspire (Motion)         |       |           |               |           |           |          |
| MotionSolve & MotionView |       |           |               |           |           |          |
| EDEM                     |       |           |               |           |           |          |
| Activate                 |       |           |               |           |           |          |
| Compose                  |       |           |               |           |           |          |

**MECHATRONICS & ROBOTICS**  
Emphasis: Multi-body Simulation & Controls



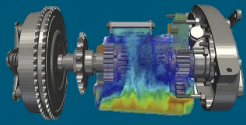
| Product Page             | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|--------------------------|-------|-----------|---------------|-----------|-----------|----------|
| Activate                 |       |           |               |           |           |          |
| MotionSolve & MotionView |       |           |               |           |           |          |
| Flux                     |       |           |               |           |           |          |
| Embed                    |       |           |               |           |           |          |
| Inspire                  |       |           |               |           |           |          |
| Compose                  |       |           |               |           |           |          |

**ELECTROMAGNETICS**  
Emphasis: Antenna Design, EMC, Wireless



| Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|--------------|-------|-----------|---------------|-----------|-----------|----------|
| Feko         |       |           |               |           |           |          |
| WinProp      |       |           |               |           |           |          |
| Embed        |       |           |               |           |           |          |
| Compose      |       |           |               |           |           |          |
| Activate     |       |           |               |           |           |          |

**COMPUTATIONAL FLUID DYNAMICS (CFD)**  
Emphasis: External Aerodynamics,  
Fluids and Thermal



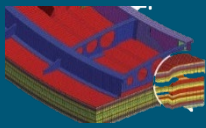
| Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|--------------|-------|-----------|---------------|-----------|-----------|----------|
| UltraFluidX  |       |           |               |           |           |          |
| HyperWorks   |       |           |               |           |           |          |
| AcuSolve     |       |           |               |           |           |          |
| SimLab       |       |           |               |           |           |          |
|              |       |           |               |           |           |          |

**EXPLICIT ANALYSIS**  
Emphasis: Crash and Impact



| Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|--------------|-------|-----------|---------------|-----------|-----------|----------|
| HyperView    |       |           |               |           |           |          |
| HyperMesh    |       |           |               |           |           |          |
| Radioss      |       |           |               |           |           |          |
| HyperGraph   |       |           |               |           |           |          |

**COMPOSITE ANALYSIS**  
Emphasis: Composite Laminates, Material  
Behaviour



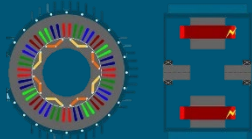
| Product Page        | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|---------------------|-------|-----------|---------------|-----------|-----------|----------|
| OptiStruct          |       |           |               |           |           |          |
| HyperView           |       |           |               |           |           |          |
| HyperMesh           |       |           |               |           |           |          |
| Multiscale Designer |       |           |               |           |           |          |
| ESAComp             |       |           |               |           |           |          |

**DESIGN OF EXPERIMENTS**  
Emphasis: Optimization, Stochastic design



| Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|--------------|-------|-----------|---------------|-----------|-----------|----------|
| HyperStudy   |       |           |               |           |           |          |

**ELECTRICAL DESIGN**  
Emphasis: Sensors, eMotor




| Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|--------------|-------|-----------|---------------|-----------|-----------|----------|
| Flux         |       |           |               |           |           |          |
| FluxMotor    |       |           |               |           |           |          |

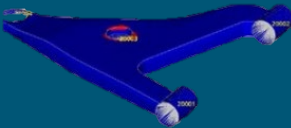
**INDUSTRIAL DESIGN**  
Emphasis: Sketching, Rendering




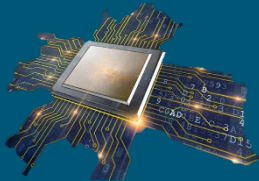
| Product Page   | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|----------------|-------|-----------|---------------|-----------|-----------|----------|
| Inspire Studio |       |           |               |           |           |          |
| Inspire Render |       |           |               |           |           |          |
| Thea Render    |       |           |               |           |           |          |

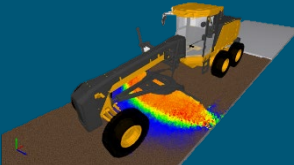
|  |                  |       |           |               |           |           |          |
|--|------------------|-------|-----------|---------------|-----------|-----------|----------|
| <p><b>DATA ANALYTICS &amp; AI</b><br/>Emphasis: Data preparation, Machine Learning</p>  | Product Page     | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|  | Knowledge Studio |       |           |               |           |           |          |
|  | Monarch          |       |           |               |           |           |          |

|   |              |       |           |               |           |           |          |
|---|--------------|-------|-----------|---------------|-----------|-----------|----------|
| <p><b>INTERNET OF THINGS</b><br/>Emphasis: Smart Products, Applications</p>  | Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|   | SmartWorks   |       |           |               |           |           |          |

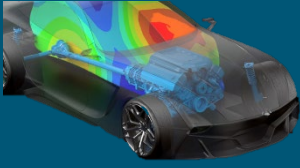
|  |              |       |           |               |           |           |          |
|--|--------------|-------|-----------|---------------|-----------|-----------|----------|
| <p><b>DURABILITY</b><br/>Emphasis: Fatigue Analysis</p>  | Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|  | HyperLife    |       |           |               |           |           |          |
|  | OptiStruct   |       |           |               |           |           |          |
|  | HyperView    |       |           |               |           |           |          |
|  | HyperMesh    |       |           |               |           |           |          |

|   |              |       |           |               |           |           |          |
|---|--------------|-------|-----------|---------------|-----------|-----------|----------|
| <p><b>AEROSPACE</b><br/>Emphasis: Optimization, Analysis, Simulation</p>  | Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|   | HyperWorks   |       |           |               |           |           |          |
|   | OptiStruct   |       |           |               |           |           |          |
|   | HyperView    |       |           |               |           |           |          |
|   | HyperMesh    |       |           |               |           |           |          |

|  |              |       |           |               |           |           |          |
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| <p><b>ELECTRONIC SYSTEM DESIGN</b><br/>Emphasis: Design Automation, Semiconductors</p>  | Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|  | Embed        |       |           |               |           |           |          |
|  | Feko         |       |           |               |           |           |          |
|  | SimLab       |       |           |               |           |           |          |
|  | Flux         |       |           |               |           |           |          |
|  | Activate     |       |           |               |           |           |          |
|  | FluxMotor    |       |           |               |           |           |          |

|   |              |       |           |               |           |           |          |
|---|--------------|-------|-----------|---------------|-----------|-----------|----------|
| <p><b>DISCRETE ELEMENT METHOD</b><br/>Emphasis: Material Simulation</p>  | Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|   | EDEM         |       |           |               |           |           |          |

**NOISE, VIBRATION, HARSHNESS**  
 Emphasis: Rattle Phenomena, NVH  
 Performance



| Product Page             | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|--------------------------|-------|-----------|---------------|-----------|-----------|----------|
| OptiStruct               |       |           |               |           |           |          |
| HyperView                |       |           |               |           |           |          |
| HyperMesh                |       |           |               |           |           |          |
| Compose                  |       |           |               |           |           |          |
| Squeak & Rattle Detector |       |           |               |           |           |          |

**SYSTEMS MODELLING**  
 Emphasis: Embedded systems,  
 Electrical/Mechanical Models



| Product Page | eBook | eLearning | Certification | Tutorials | Community | Webinars |
|--------------|-------|-----------|---------------|-----------|-----------|----------|
| Compose      |       |           |               |           |           |          |
| Activate     |       |           |               |           |           |          |
| Embed        |       |           |               |           |           |          |