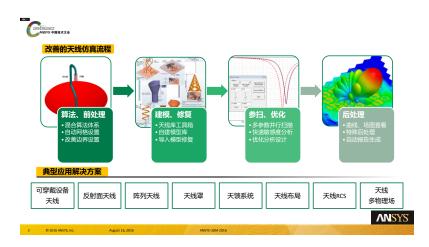


HFSS新功能改善天线仿真设计全流程

讲师/ 职位 ANSYS中国

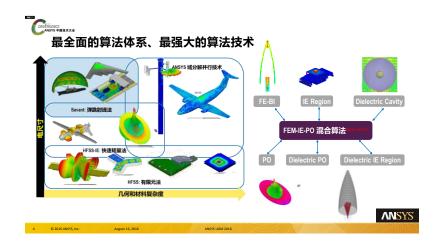




算法、前处理

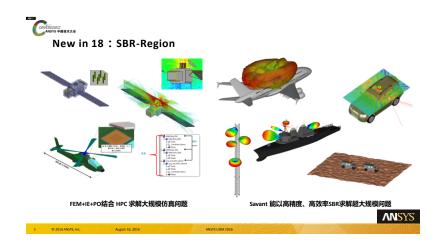
- · 全新的混合算法
- · 自动的网格设置
- · 改善的边界条件

ANSYS

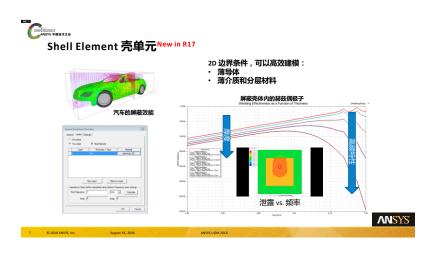


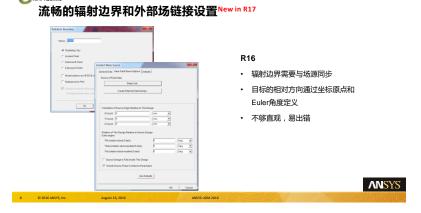
3 © 2016 ANSYS, Inc. August 16, 2016

1











流畅的辐射边界和外部场链接设置New in R17

R17

- 链接场区域无需再设置辐射边界
- 在源的基本标签栏中定义源类型
- 通过相对坐标系定义源方向
- 自动生成合适的源表面
- 更加直观





建模、修复

- ・ HFSS 内嵌天线工具箱 ATK
- 3D Component 自建模型库
- · SpaceClaim 复杂模型处理

ANSYS

© 2016 ANSYS, Inc.

August 16, 2016

ANSYS UGM

ONTEGENE

11 © 2016 ANSYS, Inc.

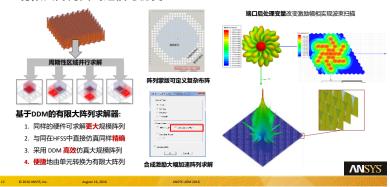
HFSS 内嵌天线工具箱 Antenna Toolkit New in R17



ONVERGENCE ANSYS 中間技术大名

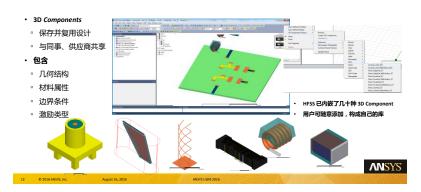
NNSYS

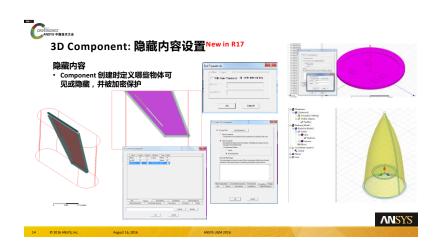
有限大阵列天线建模与仿真



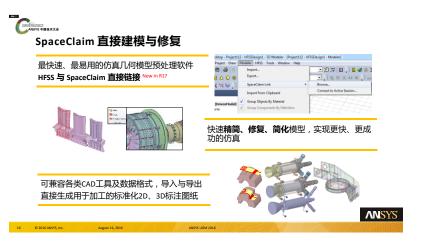
OWERGENCE ANSYS 中間技术大会

3D Components 自建模型库











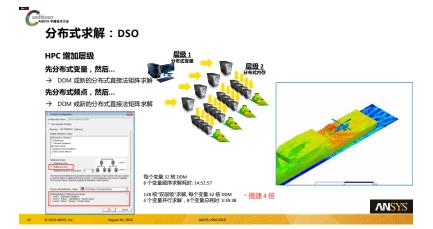
并行计算

- · 增加的GPU加速技术
- · 改善的任务提交系统

NNSYS 17 © 2016 ANSYS, Inc. August 16, 2016

HFSS求解技术与HPC







HPC 配置: 自动 vs. 手动

自动分配计算硬件资源

配资源最高效

20 © 2016 ANSYS, Inc.

仅需指明仿真用到的所有机器名,及每台机 • 用户只需指定计算机列表、 器的内核数目 核数/计算机、%RAM/计算机 • 由算法决定采用哪种方式分 • 会根据求解器的具体需求进 行不均匀任务分配 OK Canoni

HPC 配置的全自动设置

HPC 配置的手动设置: 传统和默认设置

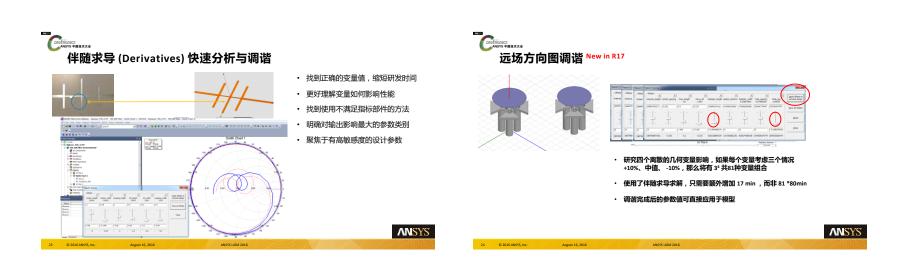
- → 指明机器名、毎台机器的任务数和总核数
- → 选择 HPC 分布式任务类型

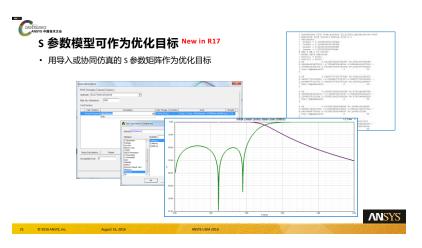


5

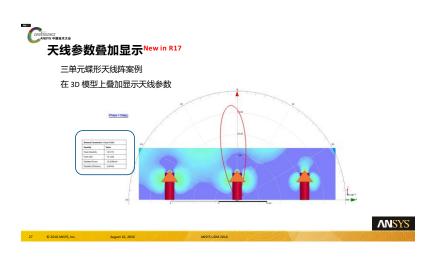


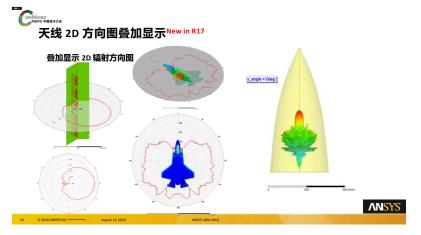












中國天线自动扫描角计算工具箱 New in R17 F.线工具箱实现自动化 F.线工具箱实现自动化 Frederic Decks Adapte All 10 Note Geter Frederic Decks Westerregenerate Decks Jasting Decks Jastin

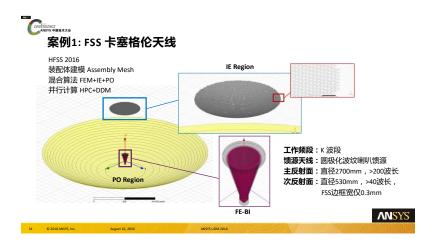


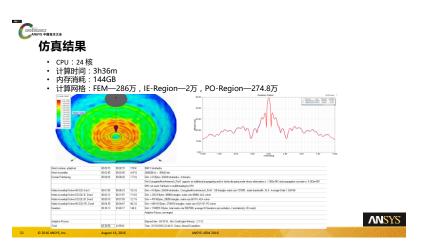
典型天线应用解决方案

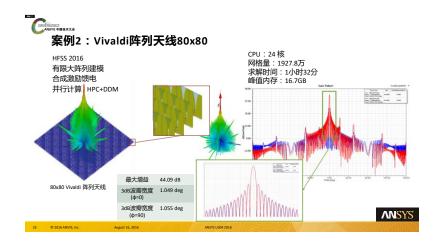
ANSYS

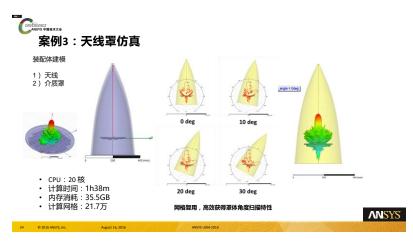
6.2016 LBOYS (av. June 15.2015

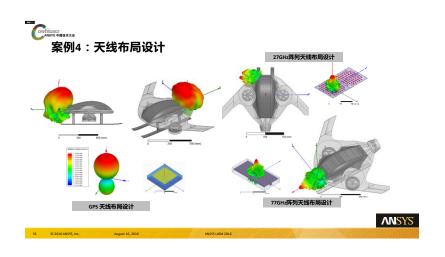
ANOS (FIN 10)

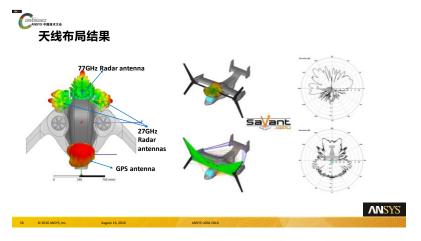


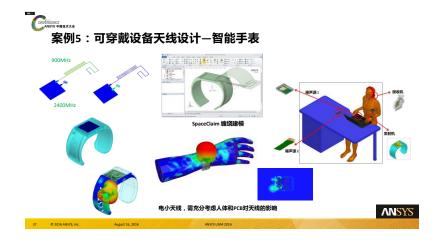


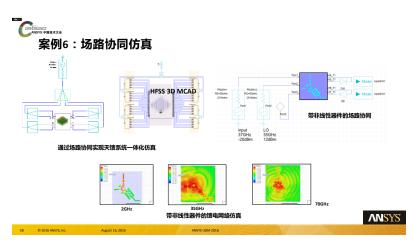


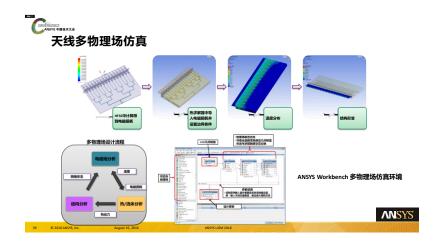














感谢聆听

