



Published on *CD-adapco* (<http://www.cd-adapco.com>)

? > STAR-CCM+: Harmonic Balance Innovations for Blade Thermal Durability

---

# STAR-CCM+: Harmonic Balance Innovations for Blade Thermal Durability

Flier:



The implementation of the revolutionary harmonic balance method for the solution of periodically repeating turbulent flows enables the study of unsteady effects in rotating machinery with computational time scales that are drastically reduced compared to traditional transient methodologies.

**Industries:**

????[2]

**Products:**

STAR-CCM+ [3]

Technologies [4]

Harmonic Balance [5]

CD-adapco? ?????? ?????? ?????? ?? ????? ?? ?? ?? ?? ? ??? ????? ?? ????? ?? ? ??? ?????  
CFD ?? ??????. ??? ?????? ??? ?? ?????? ?????? ?????? ?????? 30?? ?? ??? ??? ?????.

---

**Source URL:** <http://www.cd-adapco.com/ko/node/950>

**Links:**

- [1] [http://www.cd-adapco.com/sites/default/files/flier/pdf/Harmonic\\_Balance\\_Innovations\\_for\\_Blade\\_Thermal\\_Durability.pdf](http://www.cd-adapco.com/sites/default/files/flier/pdf/Harmonic_Balance_Innovations_for_Blade_Thermal_Durability.pdf)
- [2] <http://www.cd-adapco.com/ko/industries/%ED%84%B0%EB%B3%B4%EA%B8%B0%EA%B3%84>
- [3] <http://www.cd-adapco.com/ko/products/star-ccm>
- [4] <http://www.cd-adapco.com/ko/products/technologies>
- [5] <http://www.cd-adapco.com/ko/products/star-ccm/%E8%B0%90%E6%B3%A2%E5%B9%B3%E8%A1%A1>