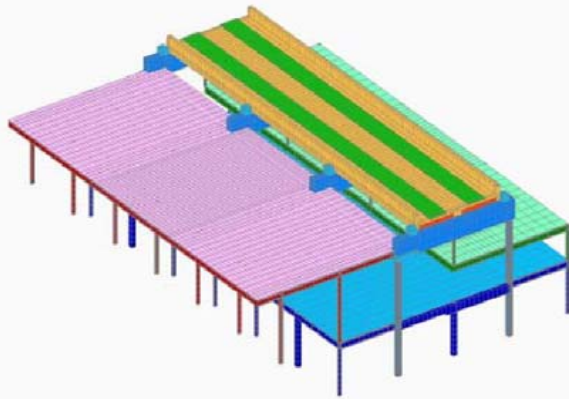
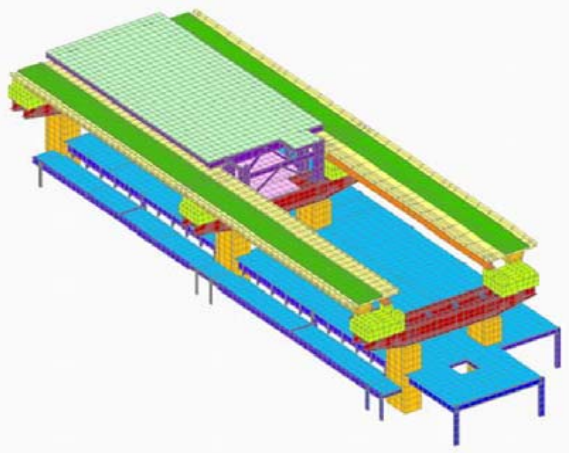
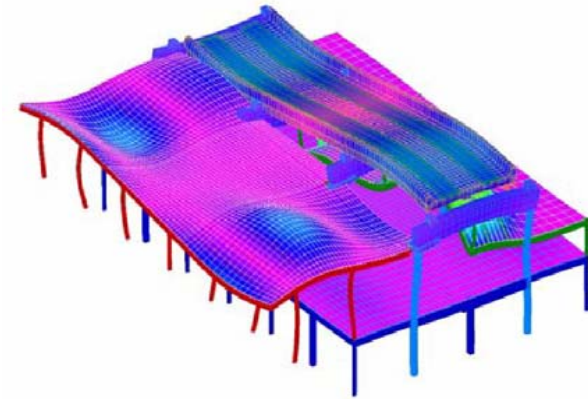
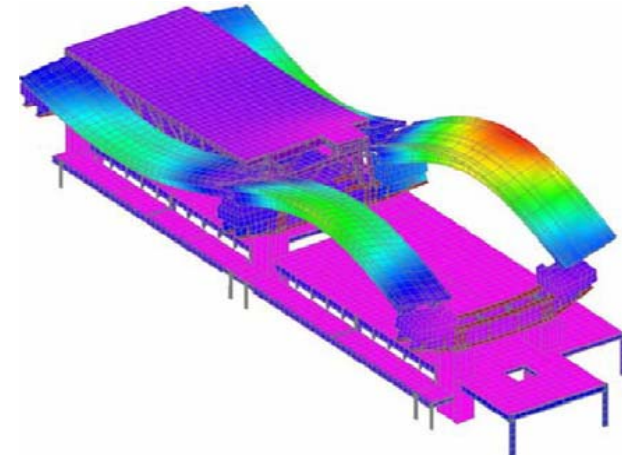




## Civil Case Study (Wilson Ihrig & Associates – Parking Structure)



NEi Nastran was used by Wilson, Ihrig & Associates, Inc. ([www.wiai.com](http://www.wiai.com)) to analyze the effects of vibration created by the new APM (Automated People Mover) being incorporated into the expansion project of a major international airport. The goal of the analysis was to ensure that the movement of the APM did not disturb travelers in any way. WIA constructed detailed models of the terminal structures and the guideways (as seen in the surrounding frames) and developed an excitation forcing function using techniques pioneered by WIA. The data was then combined with measurements of APM's from two other airports and used to refine the finite element analysis. The completed analysis showed that vibration isolation was required in one of the new terminal structures. The finite element modeling and dynamic simulation made possible with NEi Nastran was instrumental in creating an accurate, efficient, and cost effective solution.



**NEi Software, Inc.** is aggressively focused on commitment to the customer. Detailed documentation, customized on-site training, and comprehensive technical support ensures that you will see immediate return on your investment.

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