JAN SMÉKAL

For song-'Take on me-AHA' were used following instruments: oboe, flute, clarinet, violin, acoustic guitar, orchestral harp, electric base, and piano. For synthesizing instruments were used following techniques-

Oboe

FM synthesis with one modulator modulating sine wave.

Clarinet

Formant synthesis with 4 band-pass filters excited by sawtooth wave.

Violin

Formant synthesis with 8 band-pass filters excited by sawtooth wave with added FM modulation to simulate vibrato.

Flute

Nonlinear synthesis with polynomial up to 11th order.

Acoustic guitar

Karplus strong algorithm

Piano

Subtractive synthesis with 2 low-pass filters and one high-pass. Excitation wave was square with 77 duty. Also was used soft clipping

Harp

FM with one oscillator modulating sine wave and filtered with low-pass filter

Electric base

FM synthesis with two modulators modulating sine wave with added low-pass filter.

To the all instruments was added reverb.