Newsletter # 18
Use New NUVIB 2.1 User Manual to Calculate Response Spectra from Seismograph Data Files and
Strains from Velocity Response Time Histories
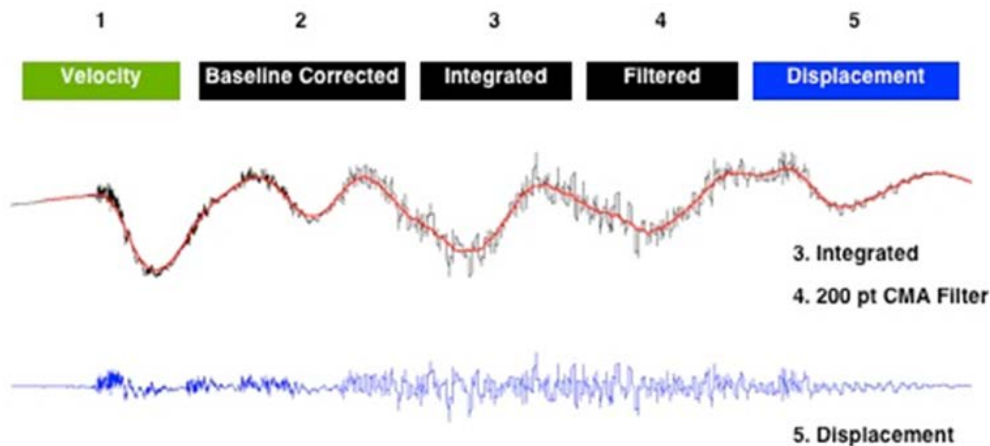Also Visit the Revitalized ACM Website to Explore Its New Content

Figure 1 Process of Producing a Displacement Time History that Oscillates about Zero as It Attenuates, Which is Explained in Section 4.4 of the New NUVIB 2.1 Users' Manual

NUVIB 2.1 User Manual is now available at the following URL:
http://www.civil.northwestern.edu/people/dowding/NU~VIBE/nu~vibe.html
To access this new manual after reaching the above URL, press NUVIB2.1, select the folder entitled nuvib2.1, which contains unchanged NUVIB 2, Zipped Example Files, and the PDF of the ***new*** NUVIB 2.1 User Manual.

While the analysis program NUVIB2 has not changed, the NUBIV 2.1 User Manual contains a number of additions to enhance it use, which include:

> New Instructions for digitizing hard copy time histories for calculation of response spectra
>
> Procedures for translation of commercial seismograph time history data files to ASCII for calculation of response spectra. Included are the following: Gecko & Ecopro, Geosonics, INSTANTEL, Nomis, Sigicom, and White
>
> Instructions for calculation of gross structural strains from relative displacement calculated with time synchronized velocity time histories of structural response.
>
> Procedures for smoothing of displacement time histories calculated with velocity time histories.

You may also wish to visit the ACM website at the following URL:
http://www.civil.northwestern.edu/people/dowding/acm/
to familiarize yourself with its revitalized content. It is now contains PDF copies of nearly all of the articles I've written since the publication of Construction Vibrations in 1996 as well as other important vibration related documents. For instance it houses the Newsletter Archive, unpublished USBM documents supporting RI 8507 and 8896, andother historically important but unpublished documents and data sets.