

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Civil Engineering - NOC:Radiogenic Isotope Geology

Subject Co-ordinator - Prof. R. Anand

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Fundamentals
- Lecture 2 - Nuclear Stability and Decay
- Lecture 3 - Radioactive Decay and Growth
- Lecture 4 - Geochronometry: Mass Spectrometry
- Lecture 5 - Geochronometry: Mass Spectrometry (Continued...)
- Lecture 6 - Geochronometry: Isotope dilution analysis
- Lecture 7 - Geochronometry: Sample processing
- Lecture 8 - K-Ar Method of Dating
- Lecture 9 - K-Ar Method of Dating (Continued...)
- Lecture 10 - Ar-Ar Method of Dating
- Lecture 11 - Ar-Ar Method of Dating (Continued...)
- Lecture 12 - Rb-Sr Method of Dating
- Lecture 13 - Rb-Sr Method of Dating (Continued...)
- Lecture 14 - Sm-Nd Method of Dating
- Lecture 15 - Sm-Nd Method of Dating (Continued...)
- Lecture 16 - Re-Os Method of Dating
- Lecture 17 - Lu-Hf Method of Dating
- Lecture 18 - U-Th-Pb Geochronology
- Lecture 19 - U-Th-Pb Geochronology (Continued...)
- Lecture 20 - U-Th-Pb Geochronology (Continued...)
- Lecture 21 - Isotope Geology of Pb
- Lecture 22 - Isotope Geology of Pb (Continued...)
- Lecture 23 - Processing and Presentation of Raw Isotope Geochemical Data
- Lecture 24 - Processing and Presentation of Raw Isotope Geochemical Data (Continued...)
- Lecture 25 - Application of Sr, Nd, Pb and Hf Isotopes in Petrogenetic Studies
- Lecture 26 - Application of Sr, Nd, Pb and Hf Isotopes in Petrogenetic Studies (Continued...)
- Lecture 27 - U-series disequilibrium method of dating
- Lecture 28 - U-series disequilibrium method of dating
- Lecture 29 - Fission-Track dating

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- Lecture 30 - Cosmogenic radionuclides and their applications
- Lecture 31 - Cosmogenic radionuclides and their applications
- Lecture 32 - Cosmogenic radionuclides and their applications
- Lecture 33 - Extinct radionuclides and cosmochronology
- Lecture 34 - Extinct radionuclides and cosmochronology (Continued...)
- Lecture 35 - Extinct radionuclides and cosmochronology