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2.2—Machine types 2.3—Foundation types Chapter 3—Design criteria, p. 351.3R-7 3.1—Overview of design criteria 3.2—Foundation and equipment loads 3.3—Dynamic soil properties 3.4—Vibration performance criteria 3.5—Concrete performance criteria 3.6—Performance criteria for machine-mounting systems 3.7—Method for estimating inertia forces from multicylinder machines Chapter 4

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### Foundations For Dynamic Equipment Inti

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FOUNDATIONS FOR DYNAMIC EQUIPMENT 351.3R-3  $f_{i1}$ ,  $f_{i2}$  = dimensionless stiffness and damping functions for the  $i$ -th direction,  $f_m$  = frequency of motion, Hz  $f_n$  = system natural frequency (cycles per second)  $f_o$  = operating speed, rpm  $G$  = dynamic shear modulus of the soil  $G_{ave}$  = the average value of shear modulus of the soil over the pile length

## **351.3R-04 Foundations for Dynamic Equipment**

Foundations For Dynamic Equipment Inti Title: Foundations For Dynamic Equipment Inti Author: wiki.ctsnet.org-Tom Gaertner-2020-09-15-00-29-50 Subject: Foundations For Dynamic Equipment Inti Foundations For Dynamic Equipment Inti Additionally, concrete members are designed and detailed to prevent cracking due to fatigue and

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Dynamic Equipment Inti Foundations for Dynamic Equipment (Reapproved 2011) machine tool and equipment installations is a properly designed and isolated foundation. Design Services Our Engineering group will assist you with design solutions for your machinery or equipment foundation including; structural

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Technical Discussion of Dynamic Foundation in Soil • Model, Equations • Example Calculations and Recommendations 4. References – ACI Committee 351, Books 5. Closing & Questions 9 . Types of Foundations For Equipment 1. Not Dynamic (Inertial Forces are Not Significant) 2. Foundations for Dynamic Sources a) Isolated b) On ground 3.

## **Foundations for Dynamic and Sensitive Equipment**

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Foundations For Dynamic Equipment Inti Foundations for Dynamic Equipment - INTI - PDF Free Download Foundations for Dynamic Equipment - ResearchGate FOUNDATIONS FOR DYNAMIC EQUIPMENT 351.3R-3 f i1, f i2 = dimensionless stiffness and damping functions for the i-th direction, piles f m = frequency of motion, Hz

## **Foundations For Dynamic Equipment Inti**

dynamic equipment and static equipment foundations. Various aspects of the analysis design and construction of foundations for static equipment are addressed in ACI 351.2R. To simplify the presentation, this report is limited in scope to primarily address the design and material requirements that are pertinent only to dynamic equipment foun-

## **351.3R-18: Report on Foundations for Dynamic Equipment**

very important paper

## **(PDF) ACI Foundations for Dynamic Equipment | zaid ...**

FOUNDATIONS FOR DYNAMIC EQUIPMENT 351.3R-3 f i1, f i2 = dimensionless stiffness and damping functions for the i-th direction, piles f m = frequency of motion, Hz f n = system natural frequency

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## **Foundations for Dynamic Equipment - ResearchGate**

Machine foundations are special types of foundations required for machines, machine tools and heavy equipments which have wide range of speeds, loads and operating conditions. These foundations are designed considering the shocks and vibrations (dynamic forces) resulting from operation of machines. Following are the types of machine foundations generally used: 1. Block Type Machine Foundation

## **Types of Machine Foundations and their Uses for Different ...**

Examples of foundation design and dynamic analysis. Top left: compressor, skid and foundation design provides an integrated approach and reliable results. Top right: concrete foundation dynamics. Bottom pictures illustrate pile foundation design and dynamic analysis.. 2 Wood Advantages. Wood's expertise in machinery design and dynamics, combined with in-house experts is unique.

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## **ACI 351.3R-18**

In foundation thicker than 4 ft (1.2m), the minimum reinforcing steel is used (ACI207.2R), or a

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minimum reinforcing of 3.1 lb/ft<sup>3</sup> (50 kg/m<sup>3</sup> or 0.64%) for piers and 1.91 lb/ft<sup>3</sup> (30 kg/m<sup>3</sup> or 0.38%) foundation slabs. For compressor blocks, 1% reinforcing by volume. For dynamic foundation, epoxy grout should be used

### **Foundation Design for Vibrating Machines**

ACI 351.3R, 2018 Edition, January 2018 - Report on Foundations for Dynamic Equipment This document is limited in scope to the engineering, construction, repair, and upgrade of concrete foundations for dynamic equipment. For the purposes of this document, dynamic equipment includes the following: a) Rotating machinery b) Reciprocating machinery

### **ACI 351.3R : Report on Foundations for Dynamic Equipment**

Machine foundations require a special consideration because they transmit dynamic loads to soil in addition to static loads due to weight of foundation, machine and accessories. The dynamic load due to operation of the machine is generally small compared to the static weight of machine and the supporting foundation. In a machine

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