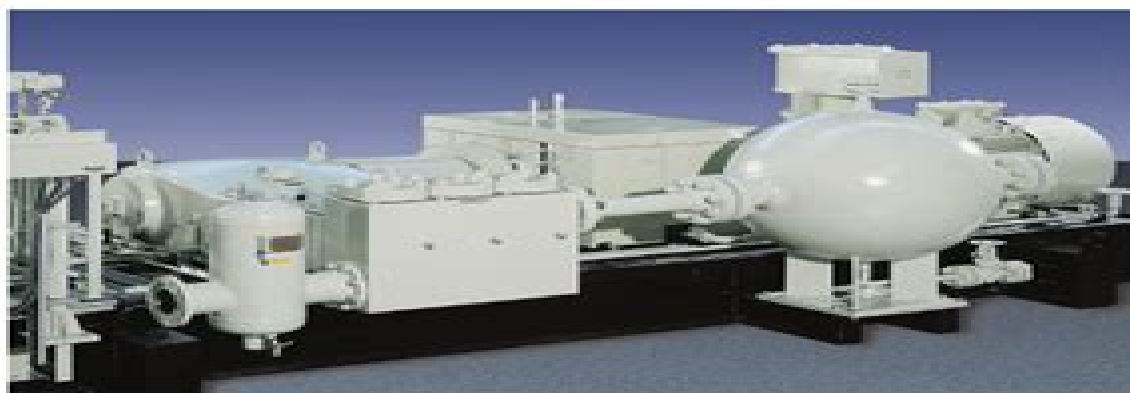


API 674 Analysis for Reciprocating Pumps

Reciprocating pumps are frequently used in many applications, because they can generate high head, independent of density. However, a reciprocating pump system also generates pulsations, which can lead to cavitation, fatigue pipe failures, reduction of efficiency and capacity limitations. TNO Science and Industry uses the digital simulation program PULSIM (PULsation SIMulation) to calculate the acoustical behaviour of the liquid in the pipe system.



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Even when pulsation levels are within allowable levels, high vibration and cyclic stress levels can occur. Especially for very flexible pipe systems and variable speed pump systems, it can be difficult to achieve an optimum design from the dynamic point of view. Cavitation and vibration problems can be avoided, and consequently life cycle costs can be reduced when they are solved during the design stage of the project.

Pulsation and mechanical response studies have demonstrated to be effective tools to meet such objectives.

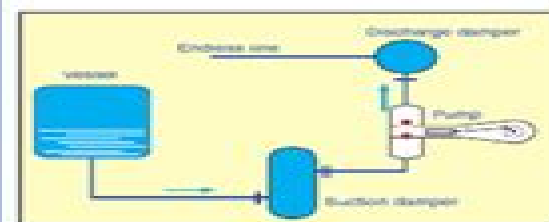
Importance of analysis

The PULSIM program has been developed by TNO Science and Industry. PULSIM solves the one dimensional flow equations with the method of characteristics in the time domain. The general purpose finite element program ANSYS is used to calculate the mechanical behaviour of the system.

Using these tools the system can be optimised from the dynamic point of view in such a way that cavitation, fatigue problems and inefficiently operating pump systems can be avoided. The importance of such an analysis is also reflected in the API Standard 674, 2nd edition of June 1995. TNO Science and Industry uses a three-step approach in the API 674 analysis.

Step 1: Prestudy or dampercheck

Projects can be delayed considerably when pulsation dampers are not designed well in an early stage of the project. To size bottles more accurately, and to prevent costly, time-consuming changes in a later stage of the project, an acoustic prestudy (also called dampercheck) of the damper is carried out.



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Raffaela Di Napoli



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Handbook of Pumps and Pumping Brian Nesbitt, 2006-10-18 Written by an experienced engineer this book contains practical information on all aspects of pumps including classifications materials seals installation commissioning and maintenance In addition you will find essential information on units manufacturers and suppliers worldwide providing a unique reference for your desk R D lab maintenance shop or library Includes maintenance techniques helping you get the optimal performance out of your pump and reducing maintenance costs Will help you to understand seals couplings and ancillary equipment ensuring systems are set up properly to save time and money Provides useful contacts for manufacturers and suppliers who specialise in pumps pumping and ancillary equipment **Software Development** ,1995 **PC Mag** ,1995-12-05 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology **InfoWorld** ,1995-08-28 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects *ASP.NET Core 8 and Angular* Valerio De Sanctis, 2024-02-28 Build robust scalable web applications using ASP NET Core 8 Angular and Entity Framework Core Purchase of the print or Kindle book includes a free PDF eBook Key Features Combine ASP NET Core and Angular to build highly versatile web applications Create a production ready Single Page Application SPA or Progressive Web Application PWA Adopt a full stack approach to handle data management API documentation Web APIs end to end testing security and deployment Book DescriptionIf you want to learn how to use ASP NET Core with Angular effectively this hands on guide is for you Improve the way you create debug and deploy web applications while keeping up to date with the latest developments in NET 8 and modern Angular including NET Minimal APIs and the new Angular standalone API defaults You ll begin by setting up SQL Server 2022 and building a data model with Entity Framework Core You ll progress to fetching and displaying data handling user input with Angular reactive forms and implementing front end and back end validators for maximum effect After that you will perform advanced debugging and explore unit testing features with xUnit for NET and Jasmine and Karma for Angular You ll use Identity API endpoints in ASP NET Core and functional route guards in Angular to add authentication and authorization to your apps Finally you ll learn how to deploy to Windows Linux and Azure By the end of this book you will understand how to tie together the front end and back end to build and deploy secure and robust web applications What you will learn Explore the new Angular and ASP NET Core template with Visual Studio 2022 Use modern interfaces and patterns such as the HTML5 pushState API webhooks and UI data bindings Add real time capabilities to Angular apps with SignalR and gRPC Implement authentication and authorization using JWTs Perform DBMS structured logging using providers such as SeriLog Convert a standard web application to a progressive web application PWA Deploy an Angular app to Azure Static Web Apps Add GraphQL support to back end and front end using HotChocolate and Apollo

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