



# Heat Exchanger Design Guide: A Practical Guide for Planning, Selecting and Designing of Shell and Tube Exchangers

*By Manfred Nitsche, Raji Olayiwola Gbadamosi*

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Heat Exchanger Design Guide: A Practical Guide for Planning, Selecting and Designing of Shell and Tube Exchangers takes users on a step-by-step guide to the design of heat exchangers in daily practice, showing how to determine the effective driving temperature difference for heat transfer.

Users will learn how to calculate heat transfer coefficients for convective heat transfer, condensing, and evaporating using simple equations. Dew and bubble points and lines are covered, with all calculations supported with examples.

This practical guide is designed to help engineers solve typical problems they might encounter in their day-to-day work, and will also serve as a useful reference for students learning about the field. The book is extensively illustrated with figures in support of the text and includes calculation examples to ensure users are fully equipped to select, design, and operate heat exchangers.

- Covers design method and practical correlations needed to design practical heat exchangers for process application
- Includes geometrical calculations for the tube and shell side, also covering boiling and condensation heat transfer
- Explores heat transfer coefficients and temperature differences
- Designed to help engineers solve typical problems they might encounter in their day-to-day work, but also ideal as a useful reference for students learning about the field

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### **Editorial Review**

#### **About the Author**

Dr. Manfred Nitsche has more than 40 years' experience as a chemical engineer. During his career he has designed and built several chemical plants and has been giving engineering training courses for young engineers since 1980. He has written a number of books on piping design, heat exchanger design, heating and cooling systems in plants, column design and waste air cleaning (all in German).

Dr. Nitsche's extensive experience includes designing and building distillation units, tank farms, stirred tank reactor facilities, air purification units and absorption and stripping units for various applications.

Mr. Gbadamosi has over 40 years of experience working in thermal design of heat exchangers. His first industrial experience was as a development engineer researching energy systems at the AEG research laboratories in Hamburg, Germany.

Following this he worked at Claudius Peters AG - a subsidiary of Babcock in the 1970s - designing process systems for the cement industry. Mr. Gbadamosi joined BP Germany in 1975 as a senior process engineer where he was responsible for

designing heat exchangers.

In 1988 he set up the consulting company RAM Systeme PRO SIM Ingenieurbüro GmbH in Hamburg, Germany with a dynamic team of chemical, mechanical engineers and chemists. Since then, he has served the process industries and academic

institutions of Germany and Europe. Some clients include: BASF, BP, Beiersdorf, DEA, DVFG, Infineon (formally Hoechst), Sasol, Shell, TEXACO, Sulzer Chemtech, Technical University of Hamburg-Harburg, Helmut Schmidt (German Armed Forces) University, University of Clausthal-Zellerfeld, Fachhochschule Bingen, Fachhochschule Düsseldorf and many others.

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#### **William Martin:**

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**Louise Perez:**

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