

三) 教案

表 3. 部分授课教案节选

DCS 反应精馏及中试装置实训

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催化裂化仿真实训教案

[illegible]

催化重整仿真实训

[illegible]

石油及产品概论

Lanzhou Petrochemical Polytechnic

Teaching Plan
(The first term)

Department: College of Petrochemical Engineering
Course name: Introduction to Oil & Product ...
Teacher's name: Zhang Hailiang, Tian Hua

无机化学实验

Lanzhou Petrochemical Technical College

Teaching Plan
(The first term)

Department: College of Petrochemical Engineering
Course name: Experiment of inorganic chemistry
Teacher's name: Anqi Wang, Xing Zhang

Class schedule of Lanzhou Petrochemical Polytechnic

Class	Teacher	Time	Room
1. Purification of Copper (II) Sulfate	...	...	...

兰州石化职业技术学院备课纸

Experiment 2 Purification of Copper (II) Sulfate

Objectives

- Understand the chemical techniques for purification of copper sulfate.
- Grasp the basic operation of purifying organic compounds.

Introduction

$$2Fe^{2+} + H_2O_2 + 2H^+ \rightarrow 2Fe^{3+} + 2H_2O$$

$$Fe^{3+} + 3OH^- \rightarrow Fe(OH)_3$$

原油蒸馏装置实训

Lanzhou Petrochemical Polytechnic

Teaching Plan
(The first term)

Department: College of Petrochemical Engineering
Course name: Crude Oil Distillation Unit Training
Teacher's name: Su Xuechao, Ma Yu

Class schedule of Lanzhou Petrochemical Polytechnic

Class	Teacher	Time	Room
1. Crude Oil Distillation Unit Training	...	...	...

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Project 5 Atmospheric and Vacuum Crude Distillation Unit for Petrochemical Refineries

Introduction

The atmospheric and vacuum distillation unit is a key part of the crude oil refining process. It separates crude oil into various fractions based on their boiling points. The atmospheric distillation unit operates at atmospheric pressure, while the vacuum distillation unit operates under reduced pressure to prevent thermal cracking of heavy fractions.