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The purpose of this work is to introduce a new process integration methodology for the conservation and optimization of resources in the process industries. The work is also geared towards reducing waste discharge from the processing facilities.

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RESOURCE CONSERVATION AND ALLOCATION VIA PROCESS INTEGRATION

Process integration and pinch analysis emerged as a systematic design tools during the energy crisis in the late 1970s. Major breakthroughs were seen in the 1980s with the establishment of mass and property integration techniques for waste minimisation and

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resource conservation. Besides the three
main areas of heat, mass and property

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Process integration is a term in chemical engineering which has two possible meanings.. A holistic approach to process design which emphasizes the unity of the process and considers the interactions between different unit operations from the outset, rather than

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optimising them separately. This can also be called integrated process design or process synthesis.

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To achieve environmental sustainability
in industrial plants, resource
conservation activities such as material
recovery have begun incorporating
process integration techniques for

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performance targets ahead of detailed design.

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cost-effective techniques, including pinch analysis and mathematical optimization, for numerous conservation problems. Following the holistic philosophy of process integration, the author emphasizes the goal of setting performance targets ahead of detailed design. He explains.

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Process Integration for Resource
Conservation, CRC Press (link 1; link 2)
Brief info: this book covers the state-of-
the-art process integration techniques
developed since 1990s for various
resource conservation problems, e.g.

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water minimisation, hydrogen recovery,
property integration.

Role of PI for Resource Conservation & Production Planning

Contains state-of-the-art process
integration approaches and applications
including graphical, algebraic, and

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mathematical techniques Covers applications that include process economics, targeting for conservation of mass and energy, synthesis of innovative processes, retrofitting of existing systems, design and assessment of renewable energy systems, and in-process pollution prevention

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Offers a medium for Process Integration
researchers to share and exchange
ideas, both from academia and industry
; Stimulates resource conservation and
optimization, pollution reduction and

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mitigation, and overall sustainable development ; Enables industries to contribute in publishing as well as to adopt the described concepts in their practices

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Resource conservation and optimization
via process integration

13.1. Introduction. The process industries are characterised by tremendous use of natural resources in the form of energy and materials. Process Integration provides an attractive framework for the design of resource-conservation networks that

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integrate process streams and units to
garner savings in energy and material
usage.

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Resource Conservation and Allocation
via Process Integration. (May 2004)

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Dustin Ashley Harell, B.S., Michigan
Technological University Chair of

Advisory Committee: Dr. Mahmoud El-
Halwagi Throughout the process
industry, the conservation and allocation
of mass and energy resources plays a
pivotal role in the site wide optimization
of a plant.

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