



Dutch Process Intensification Network

Wiki sheets

<http://www.processinnovation.nl/kennis>

One of our PIN-NL objectives:
dissiminate and exchange PI knowledge
and experience

PIN-NL / PSE-NL meeting 13 April 2017

Henk van den Berg

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European Roadmap of PI > 60 Technology reports in 2007

Organized by Andrzej Stankiewicz
Reports written by well known experts

Contents:

1. Technology – principle, benefits, development
2. Applications
3. Development and application issues
4. Where can information be found?
5. Stakeholders
6. Experts final judgement

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In PIN-NL program 2016-2017

Updates wanted by members for top 14:

- Divided wall column
- Reactive distillation
- HEX reactor
- Reactor/stripper/extractor
- Advanced Heat Exchanger, Plate, Spiral
- Centrifugal extractors
- Gas-solid-solid trickle flow reactor
- Heat-integrated distillation column
- Micro (channel) reactors
- Reversed flow reactors
- Spinning disc reactors
- Static mixers-reactors
- Supercritical reactions

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On www.processinnovation.nl/kennis

Updates – technology monographs

Wiki sheets for:

- A review of potential energy savings in the Dutch process industries
- Static Mixers
- Spinning Disc Reactors
- Centrifugal Extractors
- Structured Internals for Mass Transfer Operations

Reports prepared by Henk Akse early 2016 were converted to popular descriptions by RVO, open access on the website

Henk van den Berg, PIN NL

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8 Technology report updates end 2016

Robin Vet, Vincent Kroeze, Henk van den Berg - UT

Reports written for:

- Divided Wall column
- Three phase trickle bed reactors
- Reactive Distillation
- HEX reactors
- Reactive extraction
- Microchannel reactors
- Advance plate heat exchanger
- Supercritical Fluid Extraction/Reaction

Reports prepared:

- now converted into Wiki sheets for PIN-NL website by RVO
- Complete report versions for members PIN-NL

Henk van den Berg, PIN NL

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6 Technology report updates early 2017

Henk Akse + Henk van den Berg

Reports to be written for:

- Centrifugal extraction
- Electro chemistry
- Membrane reactors for hydrogen production - done
- Oscillating baffle reactors - done
- + 2 to be selected

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