

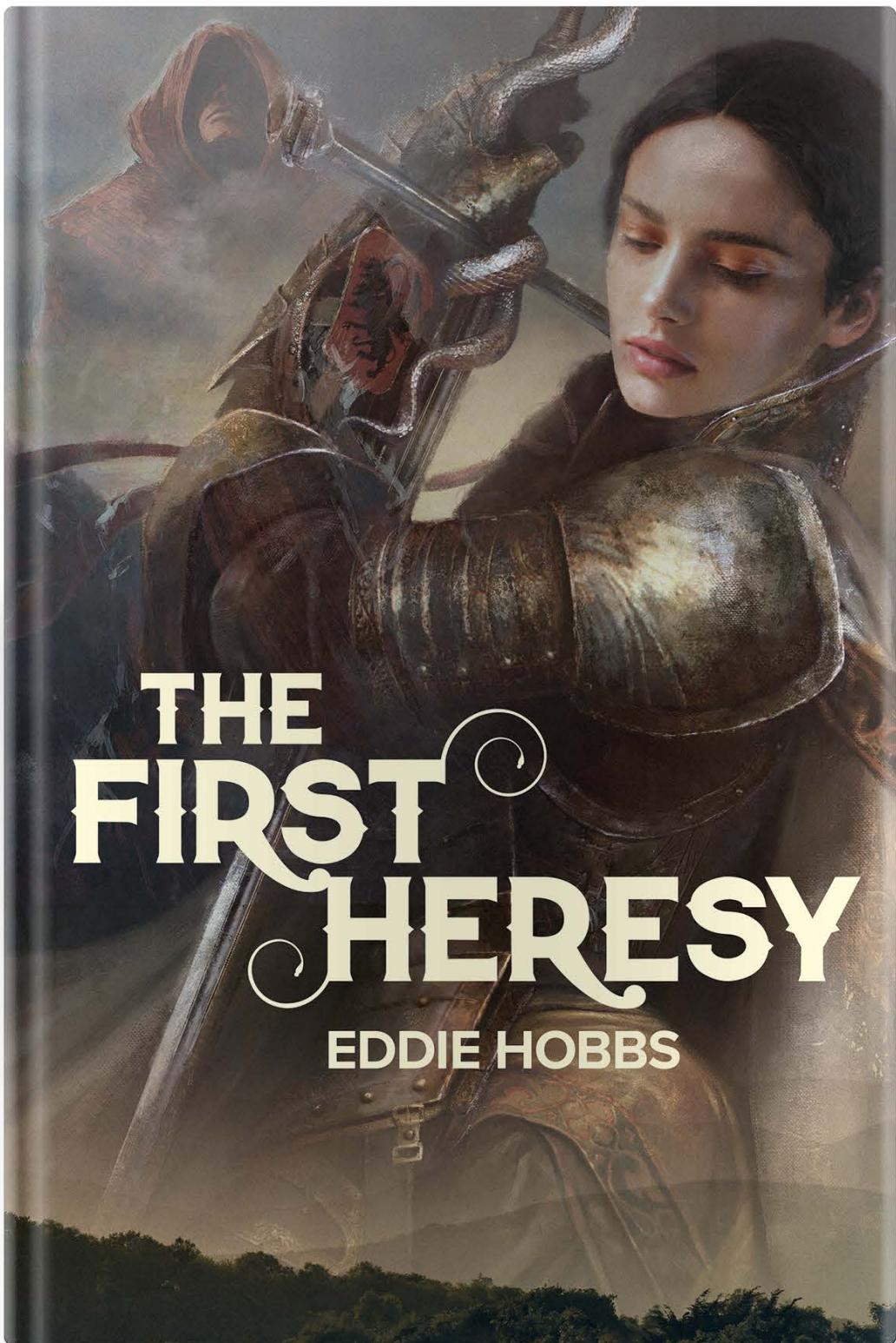


Design work

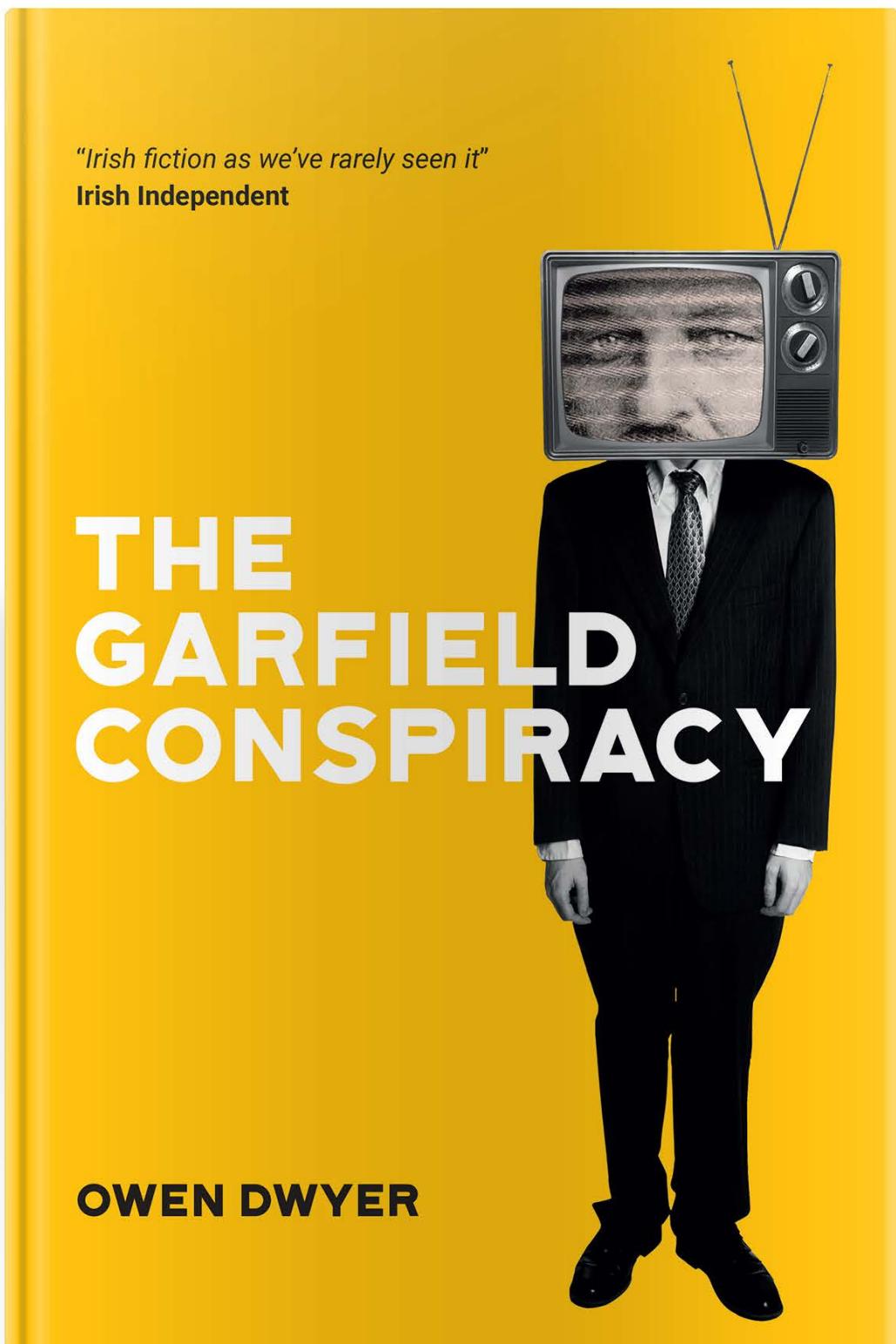
Sample portfolio

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BOOK JACKET



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"a short jab of a novel . . . elegant, intriguing and very darkly funny – and a terrific exploration of the madness of middle age"

Roddy Doyle

Quiet City

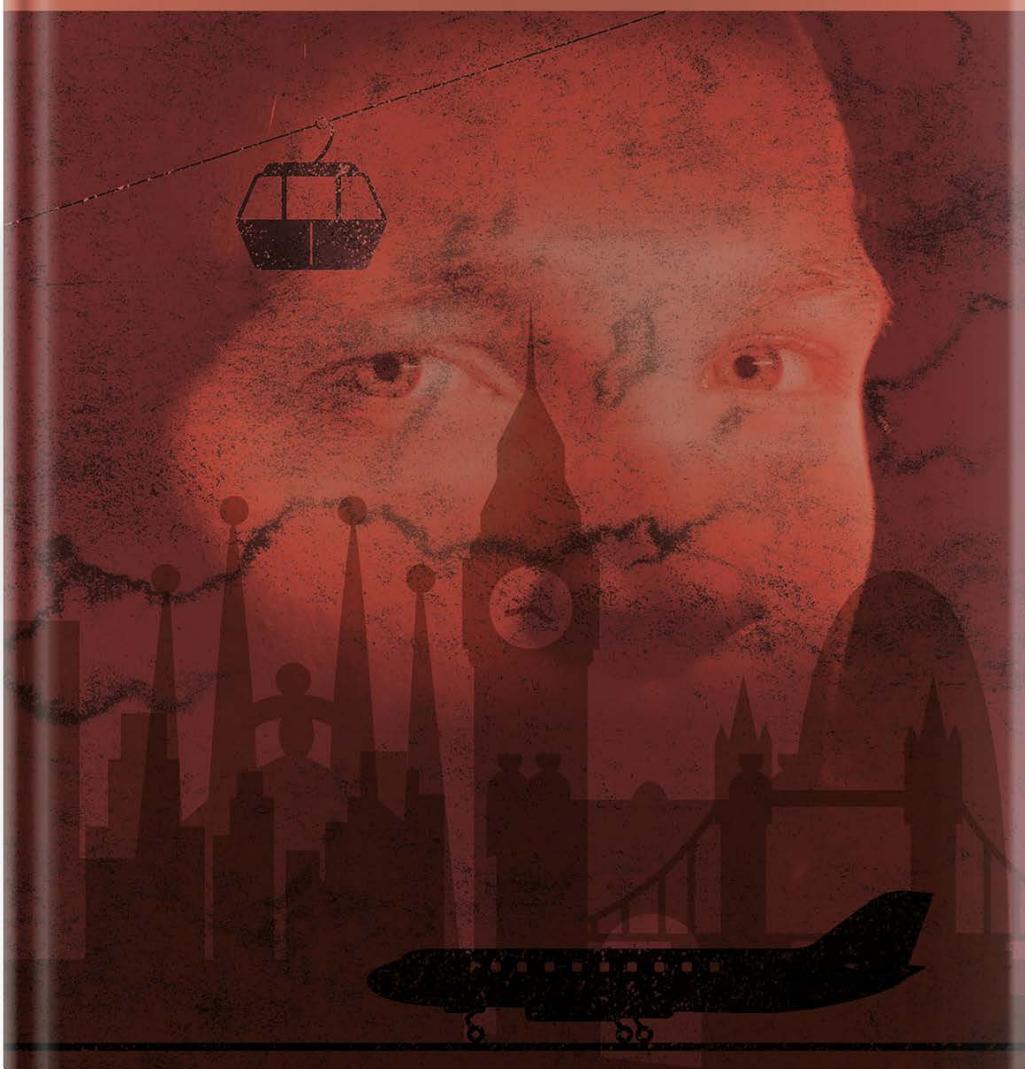
Philip Davison



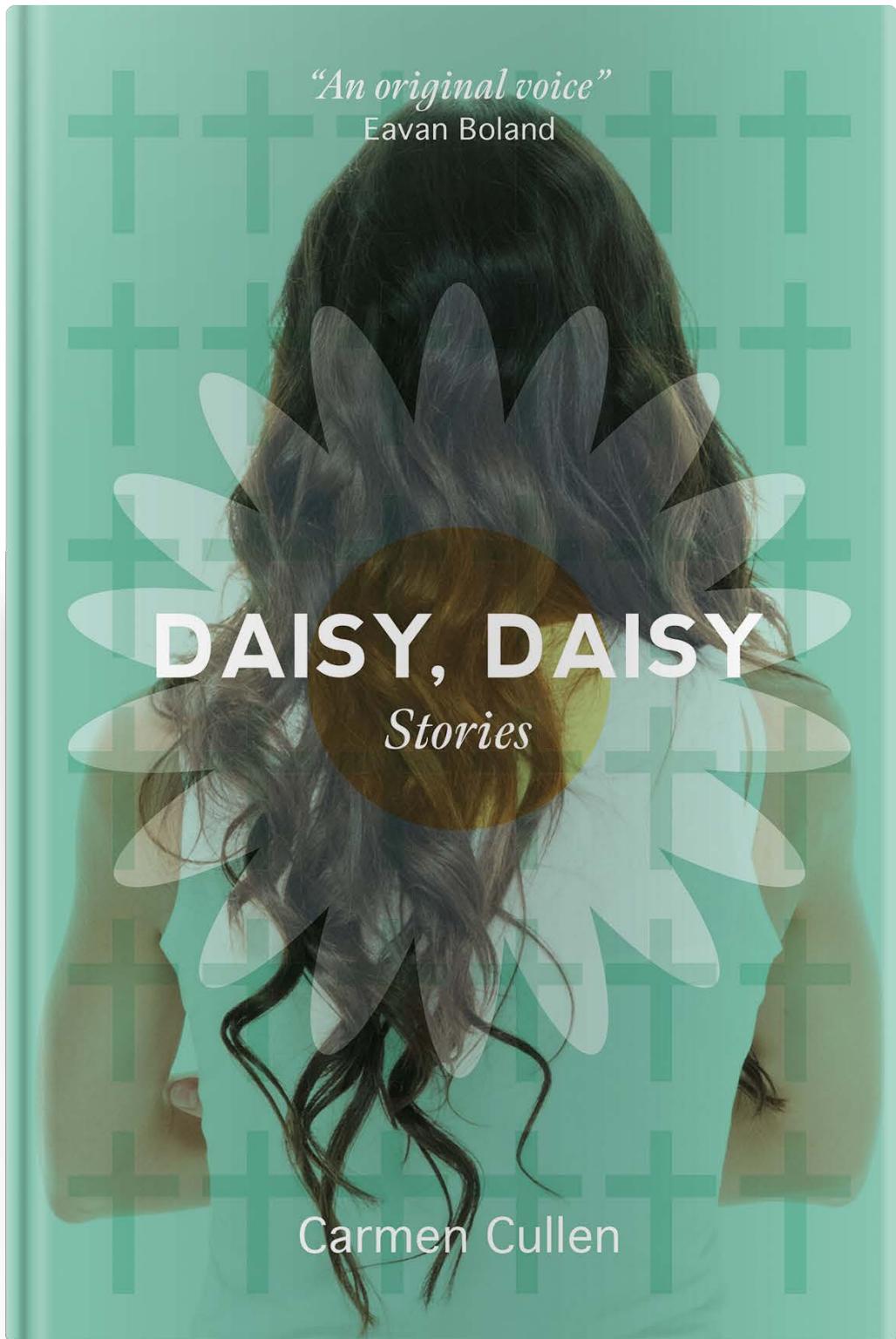
*Plane hijackings. Spy swaps. The Berlin Wall still standing.
In other words, business as usual for spies.*

The Makeweight

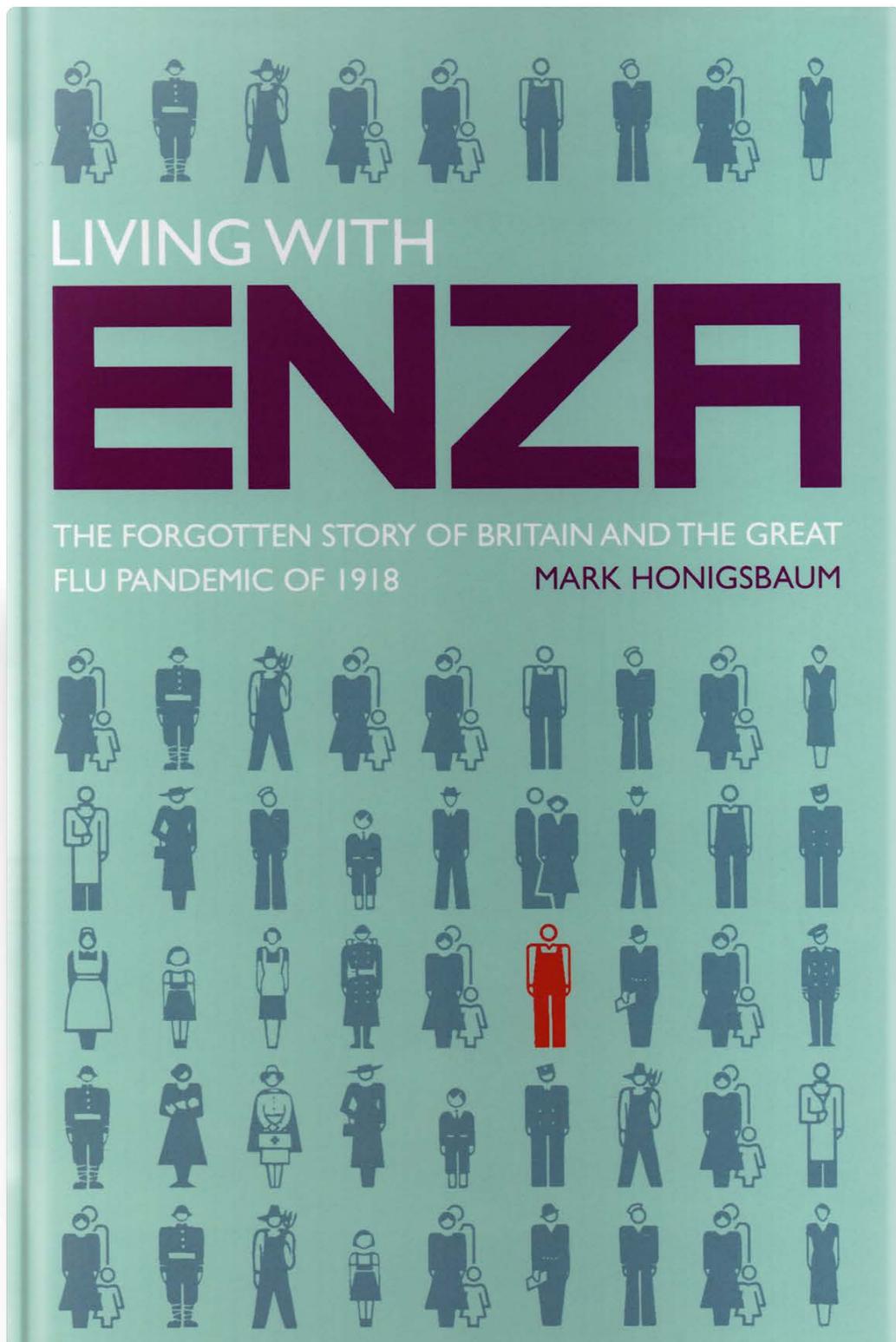
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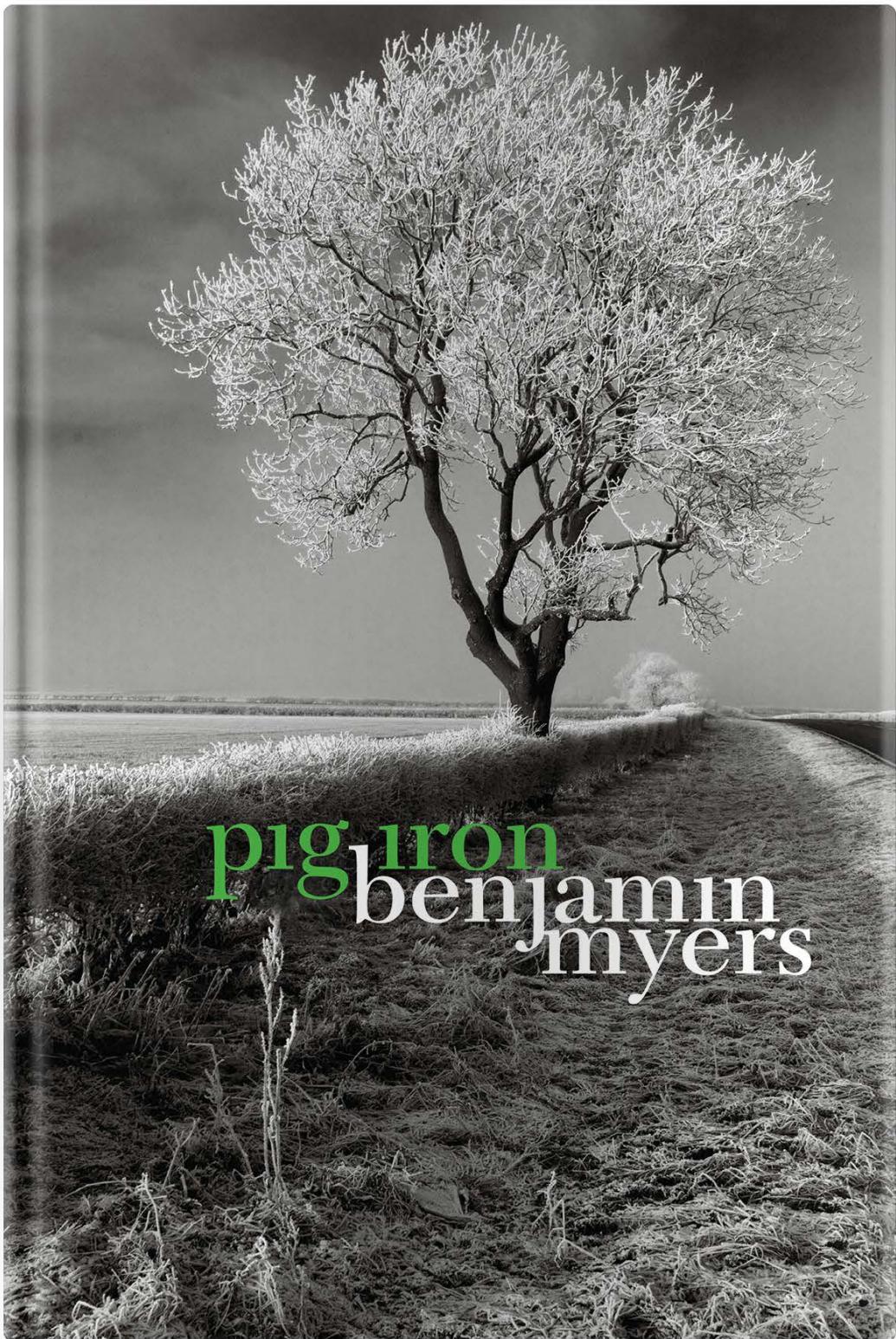
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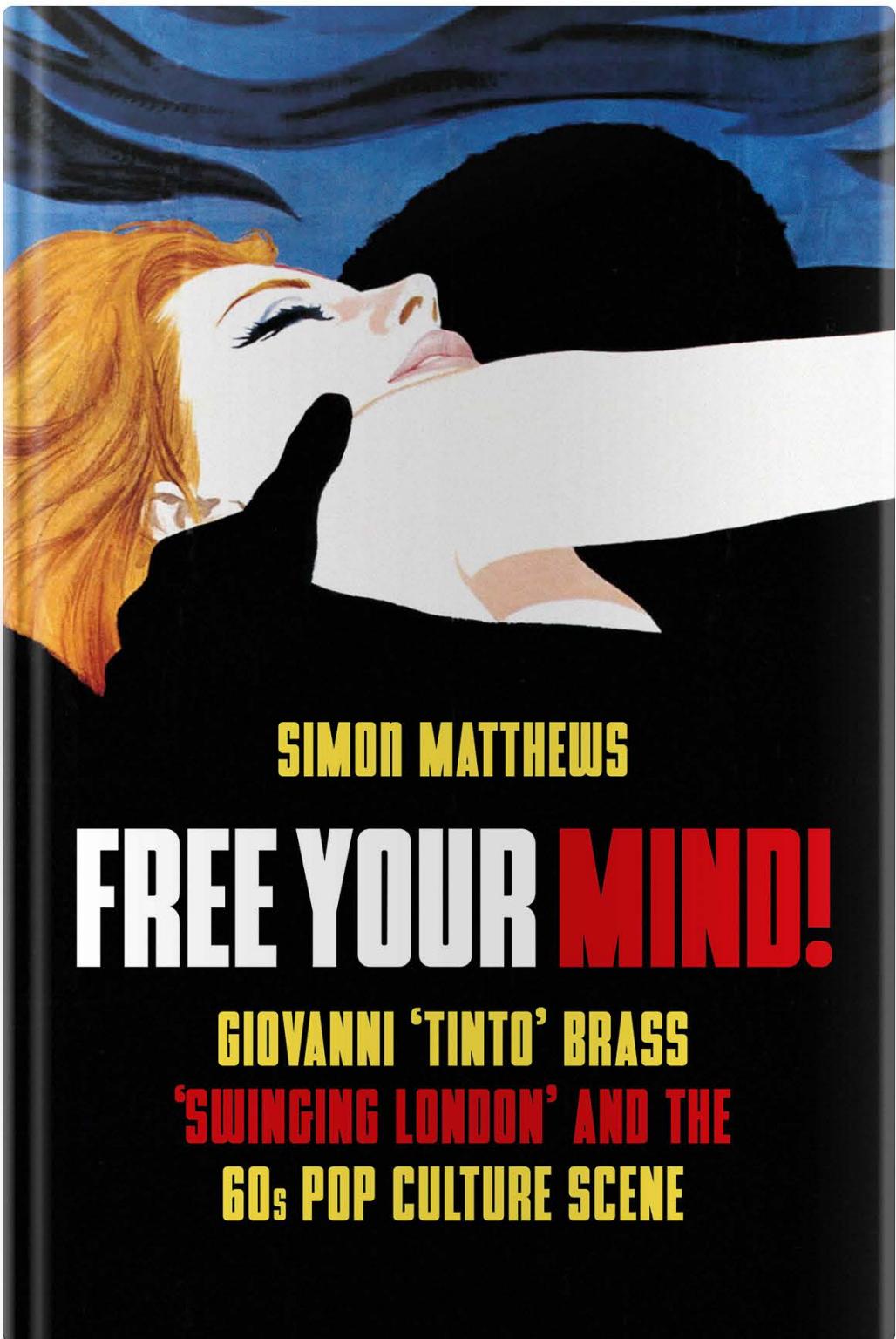


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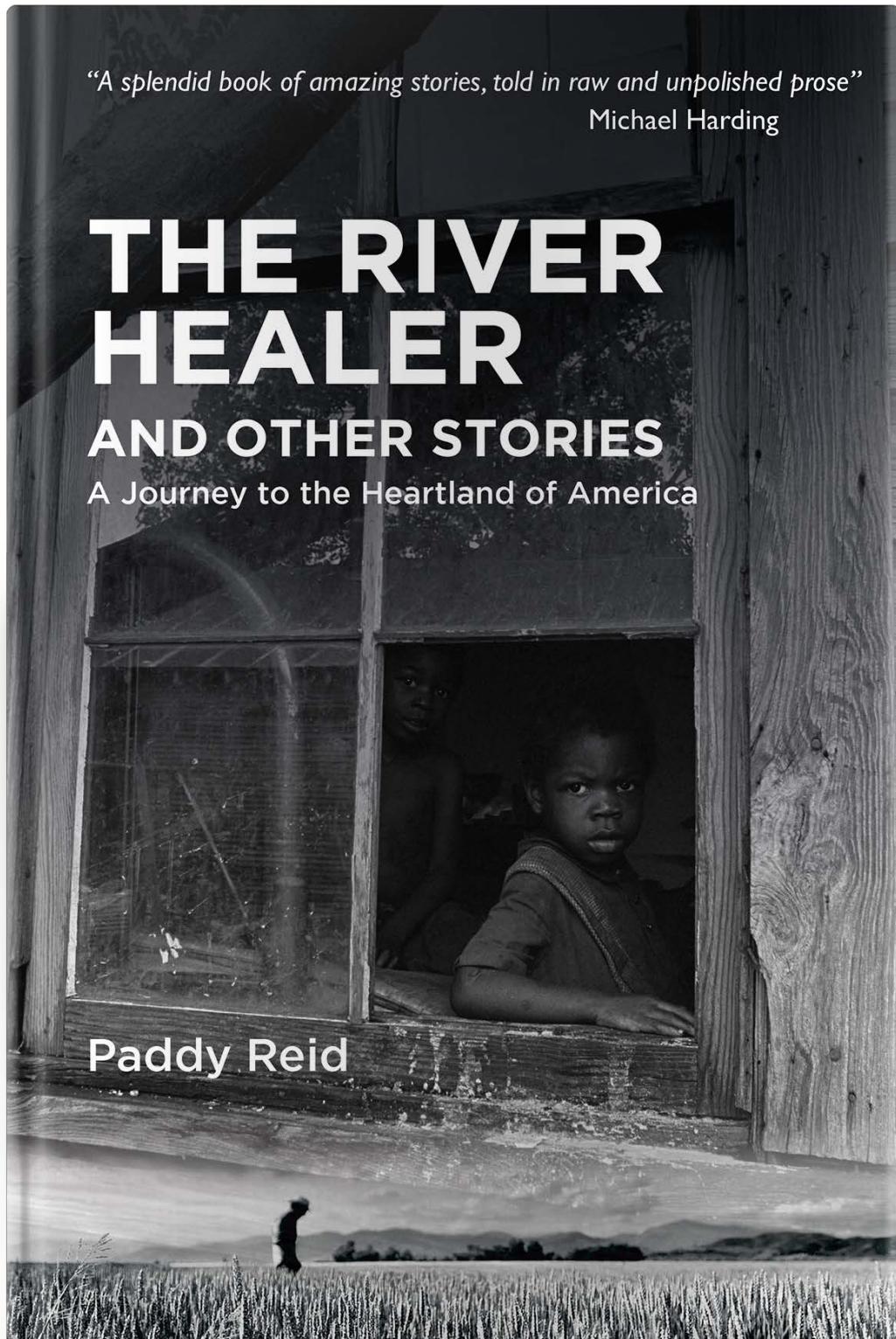
Editor: Saima Mir

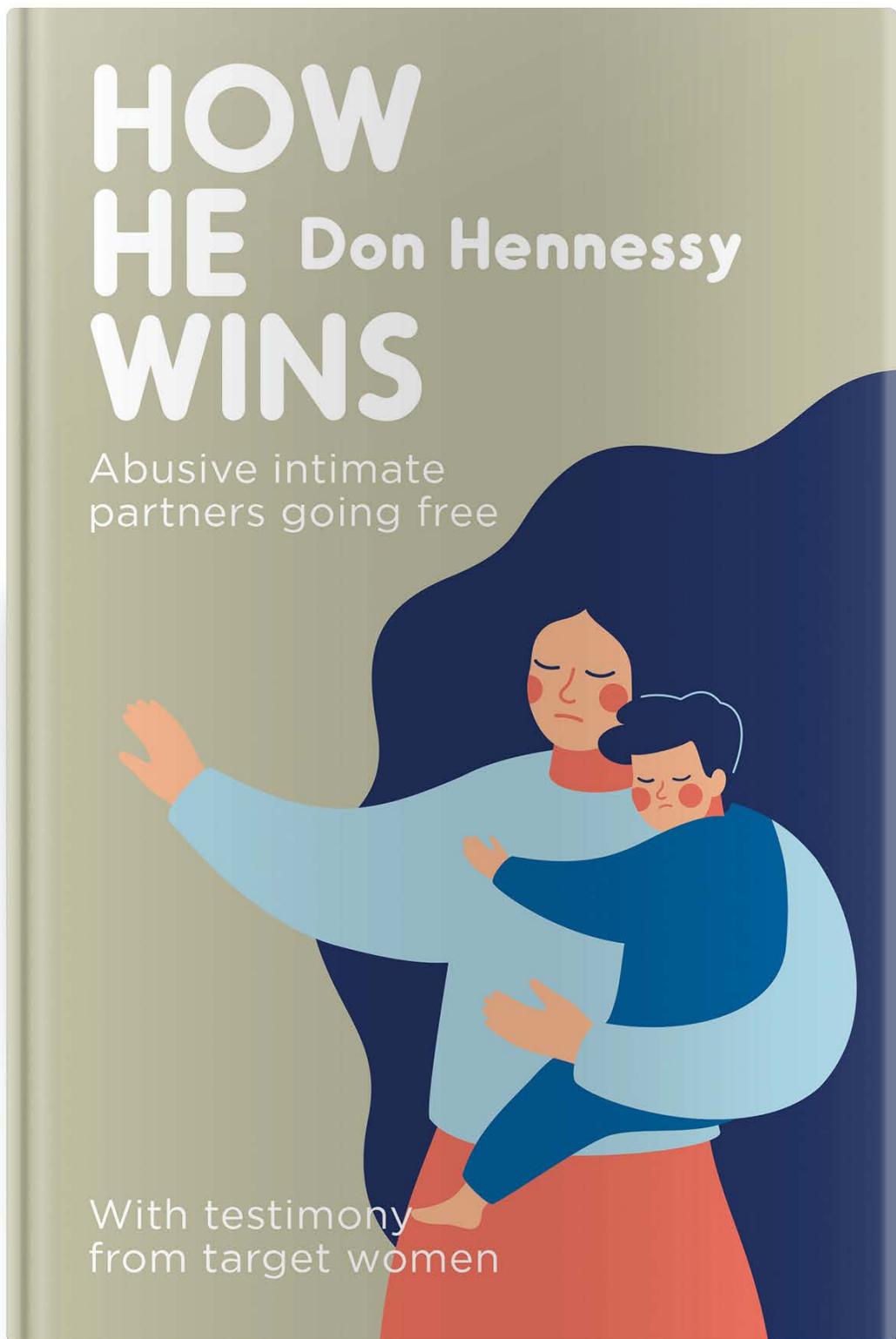
The Unheard Stories

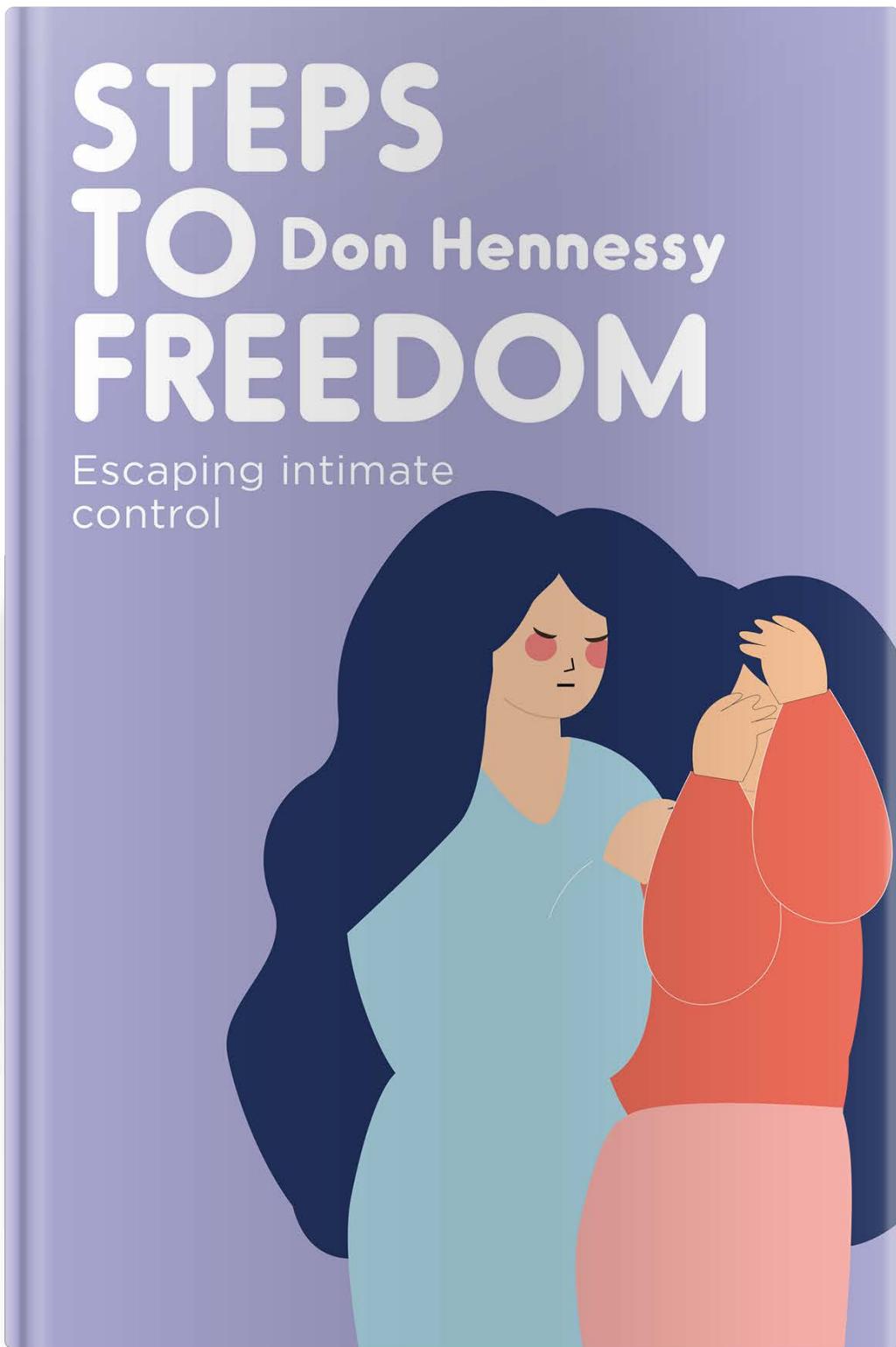
Celebrating 10 years of the
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BOOK JACKET







BOOK JACKETS & SPREADS



A HISTORY OF ENGINEERING AT ST JAMES'S GATE

MICHAEL BYRNE

BOOK JACKETS & SPREADS

8. NO. 1 BREWHOUSE

Brewing Process

The pale malt and roast malts were screened and sorted, milled separately before being mixed together in the grist-mill above the kieve. The grist was mixed with hot liquor from the first steam-engine. The bruised and broken pale malt-shells filtered the wort during run-off from the kieve.

Mashing

Internal mashing of the grist in the kieve was carried out by a rotating carriage fitted with revolving rakes. The mashing was shown as 'the goods' to the brewer, who then added hops and mashing, which was critical as 'the goods' had to be added to the wort as soon as possible.

As soon as the malt and liquor were mixed, the action of the diastase in the starch began, and proceeded rapidly. After being in the kieve for some time the wort was passed to the girdle-kieve, then the wort and its solution sank to the bottom. The wort, which is very sweet at this stage, was then run off into the perforated false bottom in the kieve, and into the underback tank. A second quantity of small pale liquor was added to the goods, and finally sparged with more hot liquor for about ten hours until no more extract could be obtained from the grist. This whole process took about seventeen hours to complete.

The pale grains, also known as wet grains, left behind in the kieve were shoveled into a spent-grains tank on the ground floor. From here they were collected by carriers and sold for animal feed. When not disposed of as wet grains, they were dried and bagged for future sale.

Balling and Hopping

The third stage of the brewing process involved boiling the wort with hops in a copper, the objective being to impart to the wort the flavouring and preservative qualities of hops. They were boiled.

They were boiled at a rate of three pounds of hops per barrel of wort. The hops were boiled twice, first with the wort, then with a weaker wort, called 'small wort'.

The boiled wort and hops were shod off into a hockback similar to a kieve. The wort was purified to three large brewing backs.

The wet-hops were returned by elevator

to copper for boiling a second time with waster wort, after which the wort was again pumped to the geusing backs. The total boiling-time in copper was 180 minutes. The brewing backs were geusing backs from each copper was carefully measured. The spent hops were dredged through a hole-hole in the brewing backs and discarded. They were sold to market gardeners for manure.

The wort from the geusing backs was pumped to the cooler of the kieve. The old pump was replaced by a steam-engine. The wort was then passed through a copper pipe to the cooling tanks. The strength of the stout in the cooling tanks was measured. The spent hops were dredged through a hole-hole in the brewing backs and discarded. They were sold to market gardeners for manure.

The original small kieve, estimated at twenty-five-barrel capacity, and underback were replaced in 1805 by a ninety-barrel capacity kieve. The original small kieve was a simple scaling-brewing of porter. A second kieve with a capacity of 150 barrels was installed in 1811. The original small kieve was removed before 1820. The grist-cases were filled in the underback tank, and the wort was then sent to the cooling tanks.

In an attempt to survive the depression in brewing caused by the Napoleonic Wars, the company decided to export their beer to Britain in 1816; this proved very successful.

By the early 1820s, more than 50 percent of the company's output was being exported.

The need to increase the brewing capacity had again

begun. However, there was no space available in the original underback tanks.

In 1824, Luke Feely offered to let his extensive holdings on Thomas Street, adjoining the original underback tanks, to the company.

The brewery moved to this site.

This doubled the brewing capacity to four times the original.

The original small kieve was removed and the brewing was increased some time later.

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Leaks and Dashes

As the kieves were run off, additional hot liquor was added to 'the goods' in kieve. The brewing backs were geusing backs from each copper was carefully measured. The spent hops were dredged through a hole-hole in the brewing backs and discarded. They were sold to market gardeners for manure.

The wort from the geusing backs was

pumped to the cooler of the kieve.

In 1840, an increase in extract was attained.

As the kieves were run off, additional hot

liquor was added to 'the goods' in kieve.

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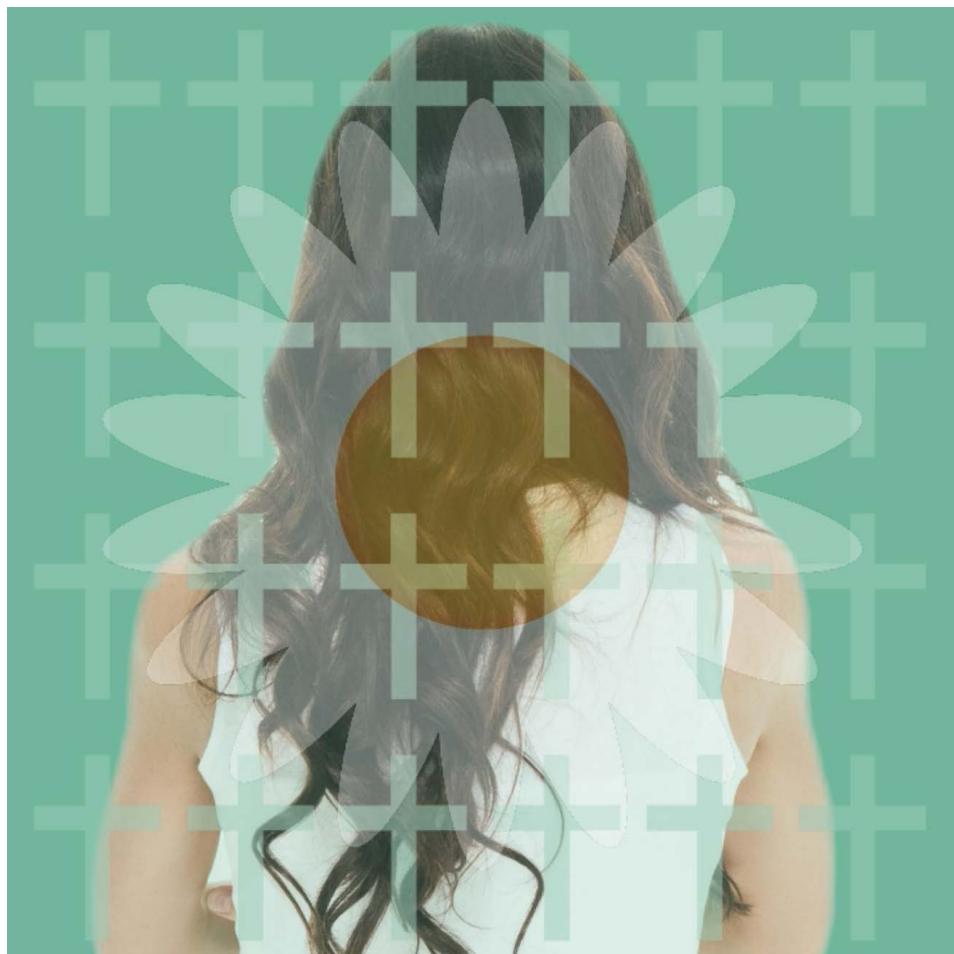
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